KYOCERA

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PH-7A/7C/7D

SERVICE MANUAL

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CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

It may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for proper disposal.

ATTENTION

IL Y A UN RISQUE D’EXPLOSION SI LA BATTERIE EST REMPLACEE PAR UN MODELE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES UTILISEES SELON LES INSTRUCTIONS DONNEES.

Il peut être illégal de jeter les batteries dans des eaux d’égout municipales. Vérifiez avec les fonctionnaires municipaux de votre région pour les détails concernant des déchets solides et une mise au rebut appropriée.

Revision history

Revision	Date	Replaced pages	Remarks

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Safety precautions

This booklet provides safety warnings and precautions for our service personnel to ensure the safety of their customers, their machines as well as themselves during maintenance activities. Service personnel are advised to read this booklet carefully to familiarize themselves with the warnings and precautions described here before engaging in maintenance activities.

Safety warnings and precautions

Various symbols are used to protect our service personnel and customers from physical danger and to prevent damage to their property. These symbols are described below:

⚠**DANGER:** High risk of serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

⚠**WARNING:** Serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

⚠**CAUTION:** Bodily injury or damage to property may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

Symbols

The triangle (△) symbol indicates a warning including danger and caution. The specific point of attention is shown inside the symbol.

General warning.

Warning of risk of electric shock.

Warning of high temperature.

⃠ indicates a prohibited action. The specific prohibition is shown inside the symbol.

General prohibited action.

Disassembly prohibited.

● indicates that action is required. The specific action required is shown inside the symbol.

General action required.

Remove the power plug from the wall outlet.

Always ground the copier.

1. Installation Precautions

⚠ WARNING

- Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current. .....

- Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities. .....

⚠ CAUTION:

- Do not place the copier on an infirm or angled surface: the copier may tip over, causing injury. .....

- Do not install the copier in a humid or dusty place. This may cause fire or electric shock. .....

- Do not install the copier near a radiator, heater, other heat source or near flammable material. This may cause fire. .....

- Allow sufficient space around the copier to allow the ventilation grills to keep the machine as cool as possible. Insufficient ventilation may cause heat buildup and poor copying performance. .....

- Always handle the machine by the correct locations when moving it. .....

- Always use anti-toppling and locking devices on copiers so equipped. Failure to do this may cause the copier to move unexpectedly or topple, leading to injury. .....

- Avoid inhaling toner or developer excessively. Protect the eyes. If toner or developer is accidentally ingested, drink a lot of water to dilute it in the stomach and obtain medical attention immediately. If it gets into the eyes, rinse immediately with copious amounts of water and obtain medical attention. .....

- Advice customers that they must always follow the safety warnings and precautions in the copier's instruction handbook. .....

2. Precautions for Maintenance

⚠WARNING

- Always remove the power plug from the wall outlet before starting machine disassembly.
- Always follow the procedures for maintenance described in the service manual and other related brochures.
- Under no circumstances attempt to bypass or disable safety features including safety mechanisms and protective circuits.
- Always use parts having the correct specifications.
- Always use the thermostat or thermal fuse specified in the service manual or other related brochure when replacing them. Using a piece of wire, for example, could lead to fire or other serious accident.
- When the service manual or other serious brochure specifies a distance or gap for installation of a part, always use the correct scale and measure carefully.
- Always check that the copier is correctly connected to an outlet with a ground connection.
- Check that the power cable covering is free of damage. Check that the power plug is dust-free. If it is dirty, clean it to remove the risk of fire or electric shock.
- Never attempt to disassemble the optical unit in machines using lasers. Leaking laser light may damage eyesight.
- Handle the charger sections with care. They are charged to high potentials and may cause electric shock if handled improperly.

⚠CAUTION

- Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections.
- Use utmost caution when working on a powered machine. Keep away from chains and belts.
- Handle the fixing section with care to avoid burns as it can be extremely hot.
- Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause abnormally high temperatures.

- Do not remove the ozone filter, if any, from the copier except for routine replacement. .....
- Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself. .....
- Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item. .....
- Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks. .....
- Remove toner completely from electronic components. .....
- Run wire harnesses carefully so that wires will not be trapped or damaged. .....
- After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws. .....
- Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary. .....
- Handle greases and solvents with care by following the instructions below: .....
  · Use only a small amount of solvent at a time, being careful not to spill. Wipe spills off completely.
  · Ventilate the room well while using grease or solvents.
  · Allow applied solvents to evaporate completely before refitting the covers or turning the power switch on.
  · Always wash hands afterwards.
- Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc. .....
- Should smoke be seen coming from the copier, remove the power plug from the wall outlet immediately. .....

3. Miscellaneous

⚠WARNING

- Never attempt to heat the drum or expose it to any organic solvents such as alcohol, other than the specified refiner; it may generate toxic gas. .....

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1-1-1 Specifications

Item		Specifications
Type		Floor model
Number of trays		Two tray
Paper weight		45 to 300 g/m^2
Tray capacity Main Try (Try A)	**When not stapling**	A3, B4, Ledger, Legal, Oficio II, 12×18", 8K: 500 sheets A4, A4R, B5, Letter, LetterR, 16K: 1000 sheets
	When stapling 2 or 4 sheets	A3, B4, Ledger, Legal, 8K: 220 sheets(55-110 sets) A4R, LetterR: 350 sheets(85-175 sets) A4, B5,Letter, 16K:350 sheets(85-175 sets)
	When stapling 5 or10 sheets	A3, B4, Ledger, Legal, 8K: 250 sheets(20-50 sets) A4R, LetterR: 350 sheets(35-70 sets) A4, B5,Letter, 16K:350 sheets(35-70 sets)
	When stapling 11 or 20 sheets	A3, B4, Ledger, Legal, 8K: 300 sheets(15-30 sets) A4R, LetterR: 400 sheets(20-40 sets) A4, B5,Letter, 16K: 400 sheets(20-40 sets)
	When stapling 21 or 30 sheets	A3, B4, Ledger, Legal, 8K: 500 sheets(16-25 sets)
	When stapling 21 or 50 sheets	A4, A4R, B5, Letter, LetterR, 16K: 1000 sheets(20-50 sets)
Tray capacity Sub Try (Try B)		A4, A4R, B5, Letter, LetterR, 16K: 100 sheets
Stapling capacity Paper weight 90 g/m^2 or less		A3, B4, Ledger, Legal, 12×18", 8K: 30 sheets A4, A4R, B5, Letter, LetterR, 16K: 50 sheets
Power source		Electrically connected to the machine
Dimensions (W × D × H)		666 ×618.5 ×1013.5 mm 26 7/32 × 24 11 × 32 × 39 57/64”
Weight		Approx. 26.5 kg/Approx. 58.42 lb

Item		Specifications
Tray capacity Main Try (Try A)	**When not stapling**	A3, B4, Ledger, Legal,Statement R, Folio, A4, A4R, B5, B5R, Letter, LetterR,12×18",8K,16K,16KR
Paper weight		45 to 300 g/m^2

NOTE: These specifications are subject to change without notice.

1-1-2 Parts names

(1) Document Finisher

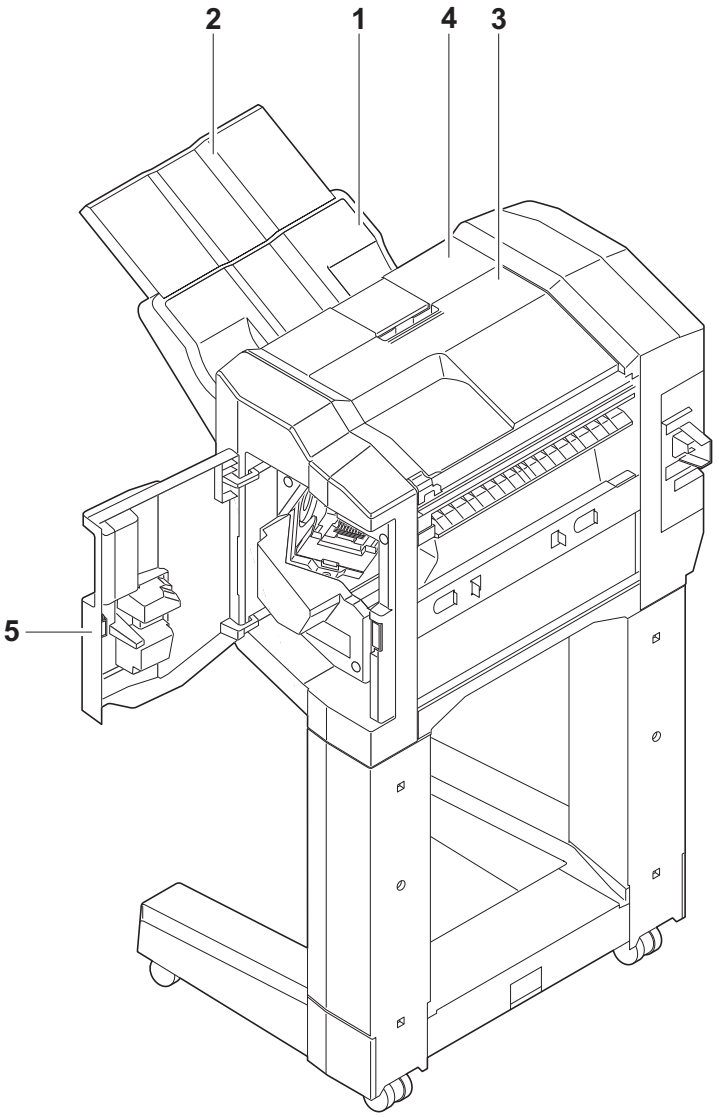

Figure 1-1-1

1. DF Main tray(tray A)
2. DF tray extension
3. DF top cover
4. DF Sub tray(tray B)
5. DF Front cover

(2) Bridge unit

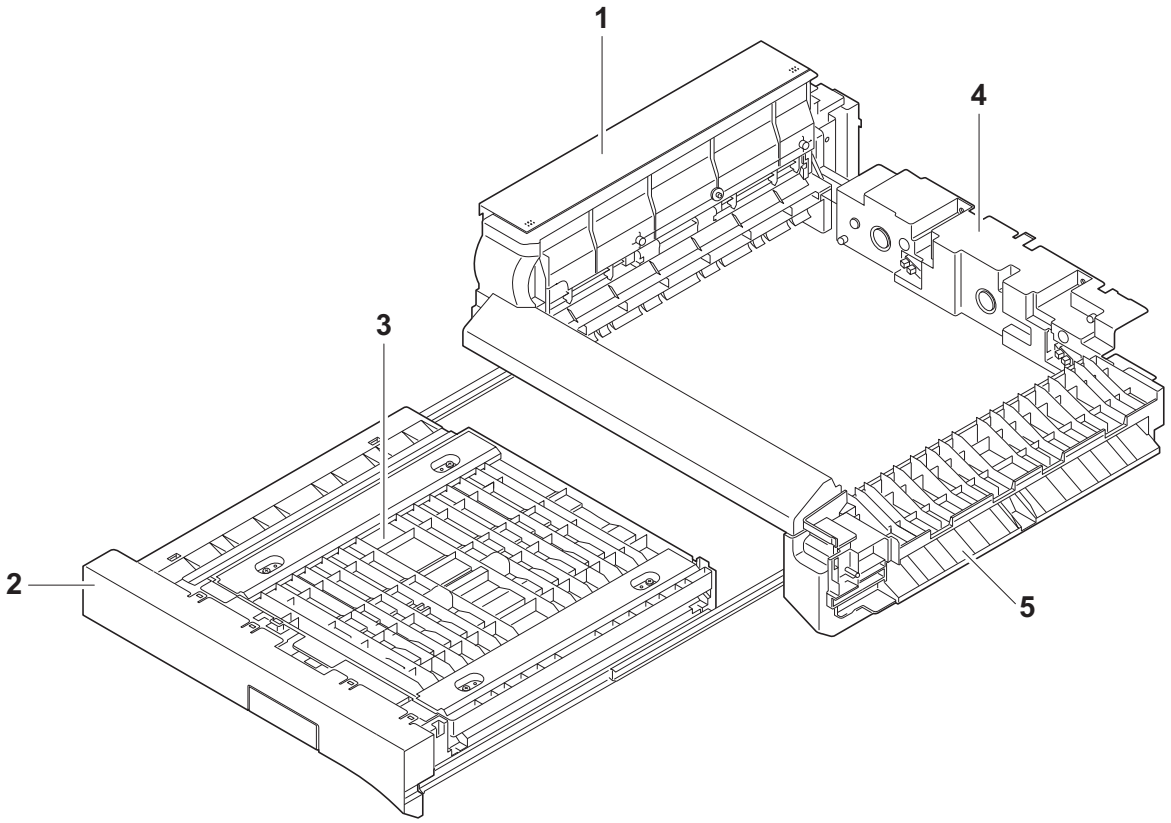

Figure 1-1-2

1. Bridge eject cover
2. Bridge conveying unit
3. Bridge conveying cover
4. Bridge drive unit
5. Bridge entry unit

1-1-3 Machine cross section

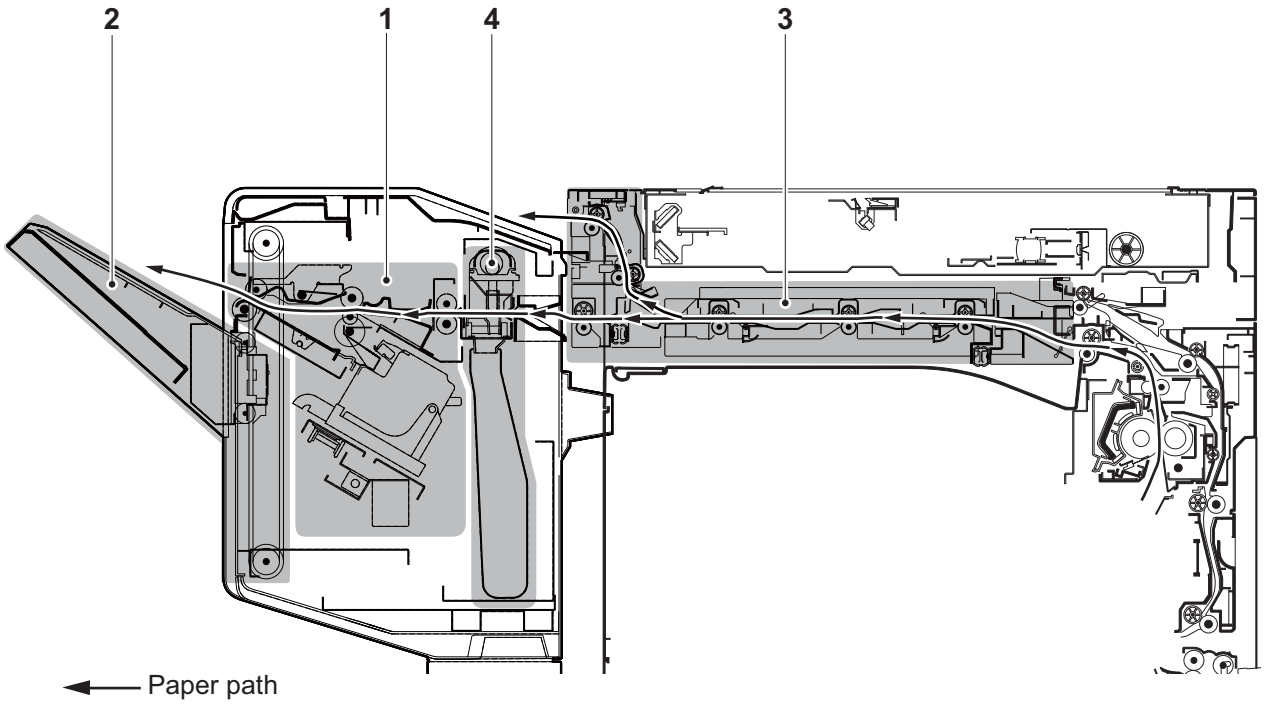

Figure 1-1-3

1. DF processing section
2. Eject tray section
3. Bridge unit section
4. Punch unit (Option)

1-2-1 Installation environment

Installation location (Be based on the machine establishment place.)
Avoid direct sunlight or bright lighting. Ensure that the photoconductor will not be exposed to direct sunlight or other strong light when removing paper jams.
Avoid locations subject to high temperature and high humidity or low temperature and low humidity; an abrupt change in the environmental temperature; and cool or hot, direct air.
Avoid places subject to dust and vibrations.
Choose a surface capable of supporting the weight of the machine.
Place the machine on a level surface (maximum allowance inclination: 1°).
Avoid air-borne substances that may adversely affect the machine or degrade the photoconductor, such as mercury, acidic of alkaline vapors, inorganic gasses, NOx, SOx gases and chlorine-based organic solvents.
Select a well-ventilated location.

1-2-2 Unpacking

(1) Unpacking

Document Finisher

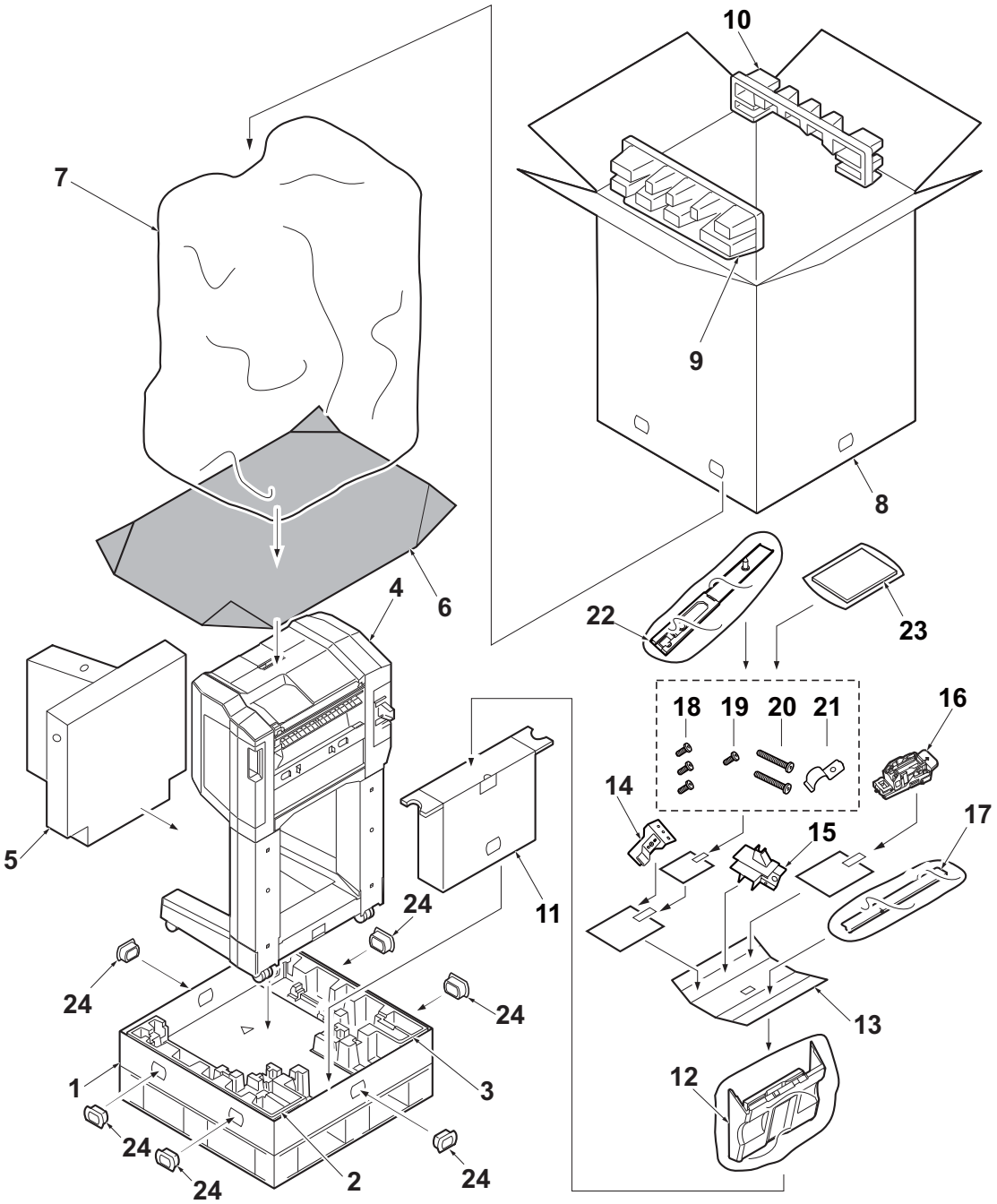

Figure 1-2-1

1. Skid
2. Bottom right pad
3. Bottom left pad
4. Document Finisher
5. Spacer A
6. Plastic sheet
7. Plastic sheet
8. Outer case
9. Upper right pad
10. Upper left pad
11. Spacer B
12. Finisher tray
13. Spacer C
14. Lower earth plate
15. Wire guide
16. Staple cartridge
17. Eject guide
18. M4 x 8 screw
19. M4 x 10 screw(black)
20. M4 x 30 screw
21. Upper earth plate
22. Connecting plate
23. Installation guide,etc.
24. Hinge joints

Bridge unit

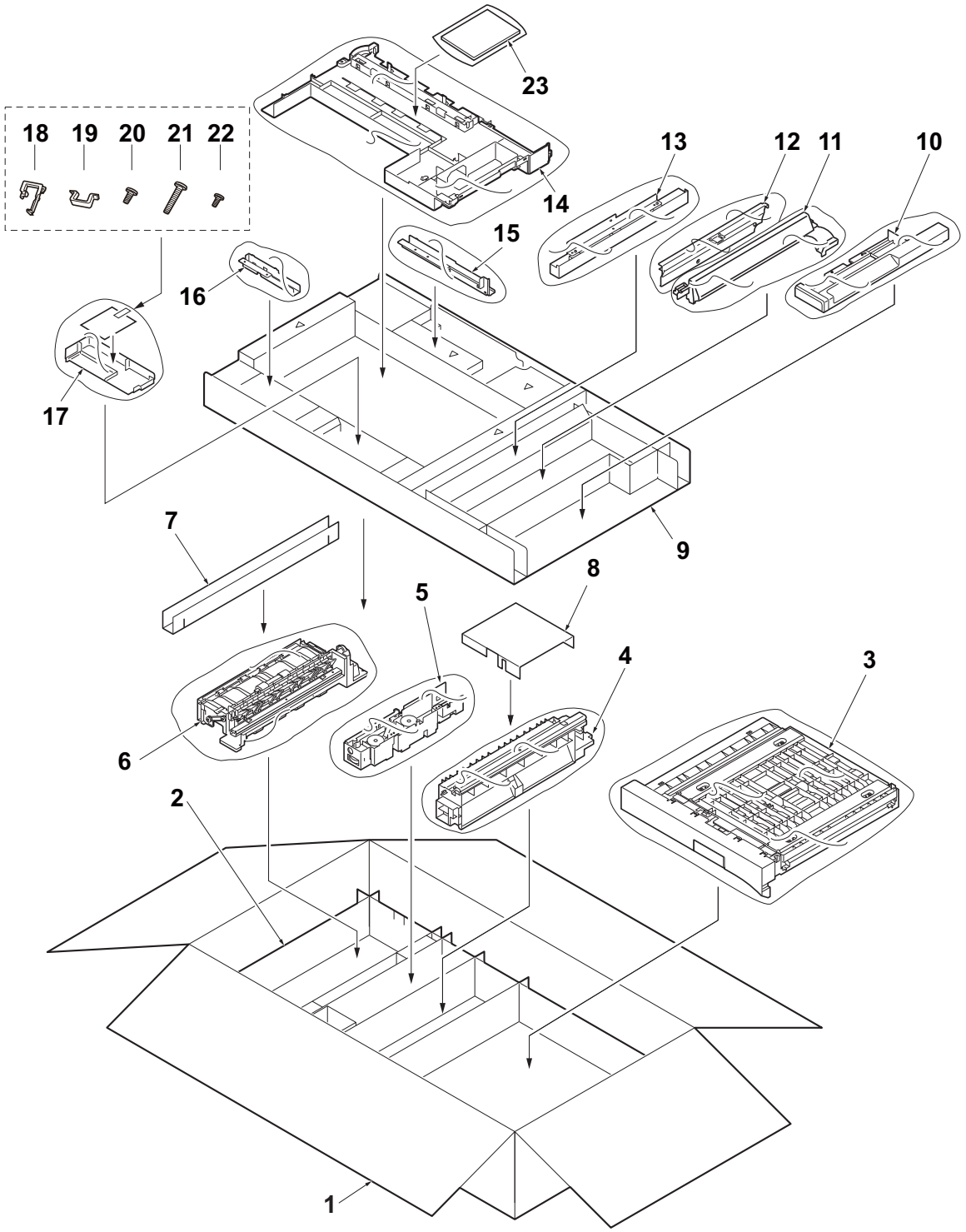

Figure 1-2-2

1. Outer case
2. Bottom spacer
3. Bridge conveying unit
4. Bridge entry unit
5. Bridge drive unit
6. Bridge eject unit
7. Spacer A
8. Spacer B
9. Top spacer
10. Left connevtion cover
11. Upper front cover
12. Left scanner cover
13. Lower connevtion cover
14. Left cover
15. Front left stay
16. Rear left stay
17. Upper left cover
18. Edging
19. Wire stopper
20. M4 x 8 screw
21. M4 x 20 screw
22. P Tite screw M3 x 8
23. Installation guide,etc.

See the Installation Guide for installation.

(2) Removing the tapes and pads

1. Remove tape from the finisher try.

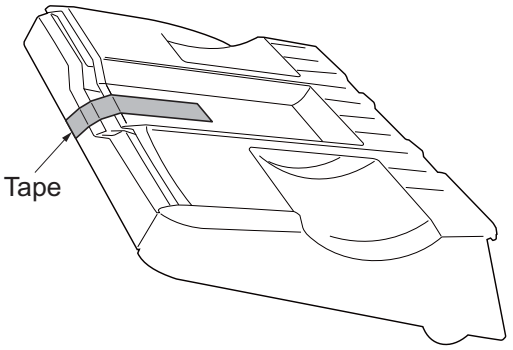

Figure 1-2-3

2. Remove tape from the document finisher.

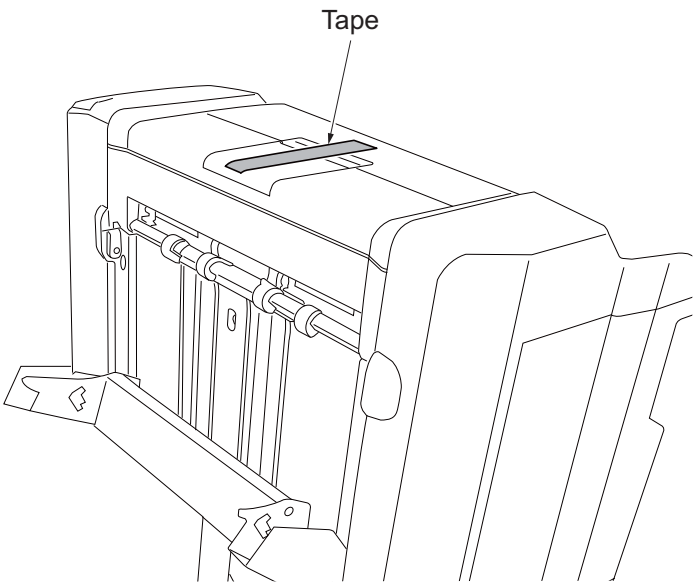

Figure 1-2-4

3. Open the DF front cover.

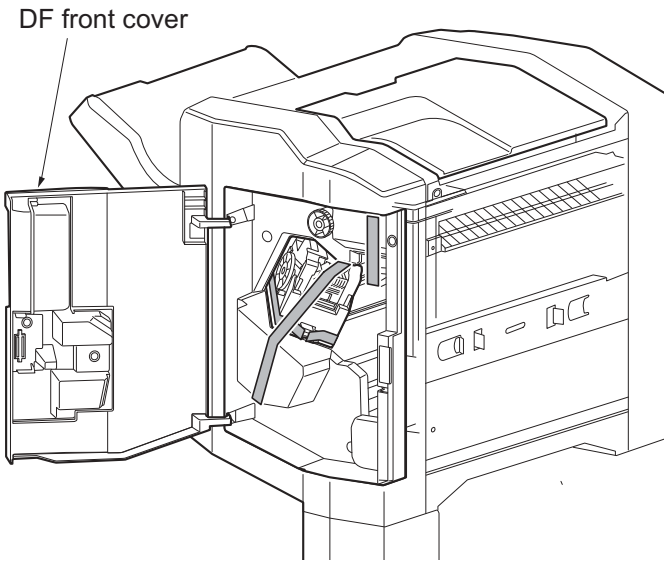

Figure 1-2-5

4. Remove four tapes.

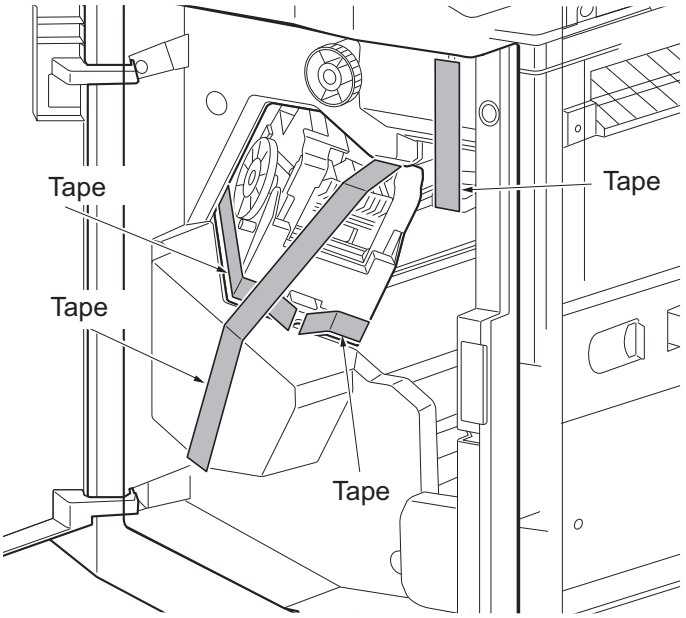

Figure 1-2-6

5. Remove tape from the DF rear cover.

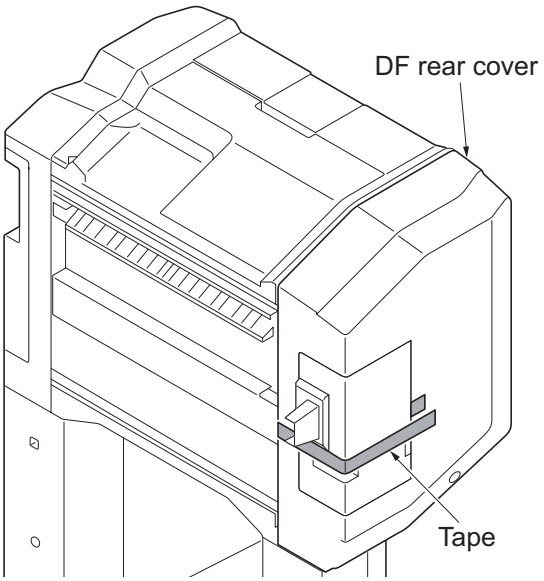

Figure 1-2-7

6. Remove the lid rear cover and then remove tape .

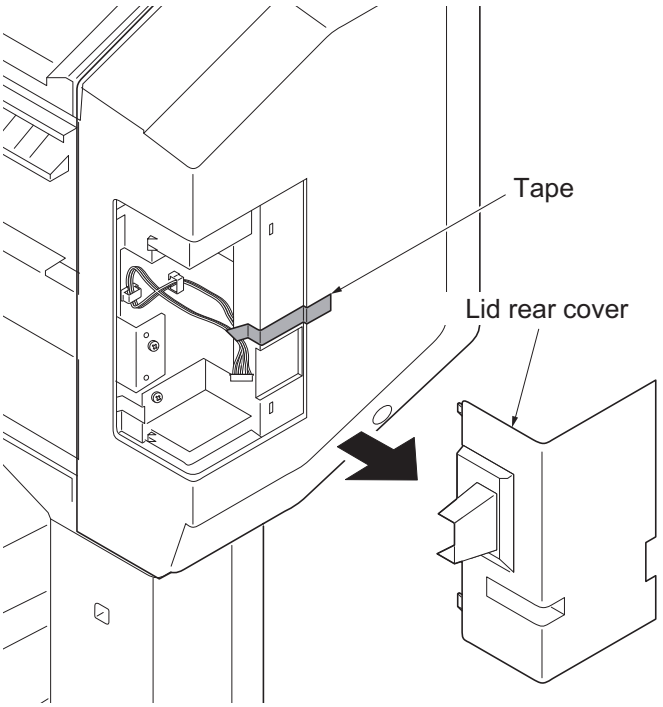

Figure 1-2-8

7. Remove tape from the bridge entry unit.

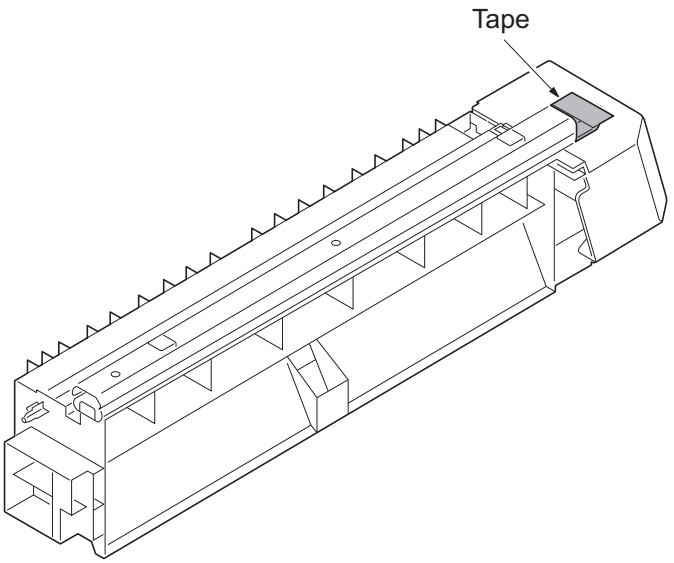

Figure 1-2-9

8. Remove five tapes from bridge conveying unit.

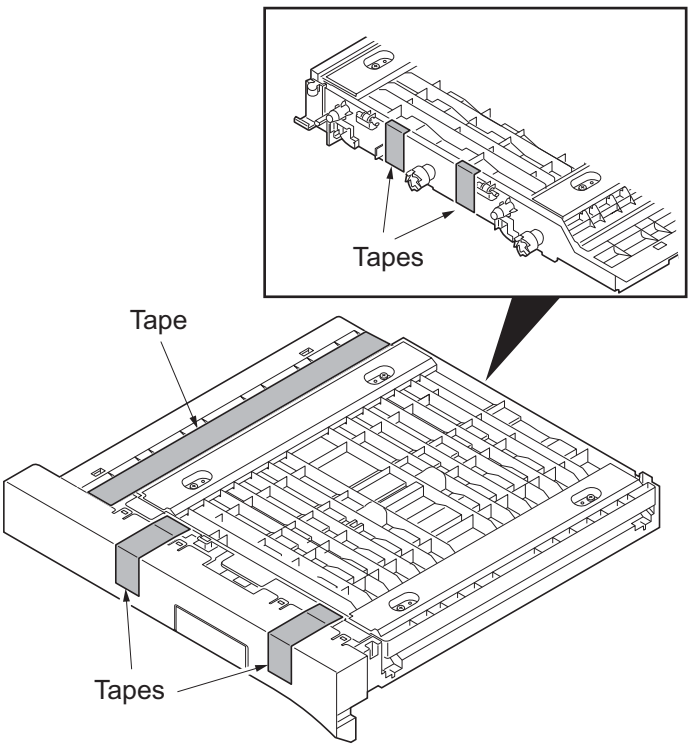

Figure 1-2-10

9. Remove two tapes from the bridge eject unit.

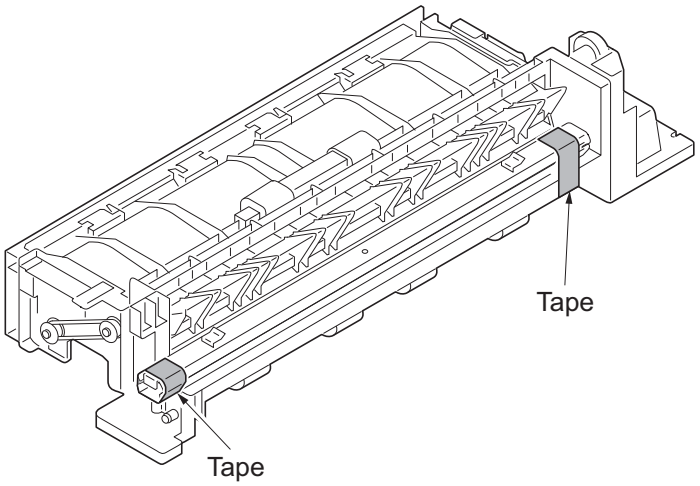

Figure 1-2-11

10. Remove three tapes and two pads.

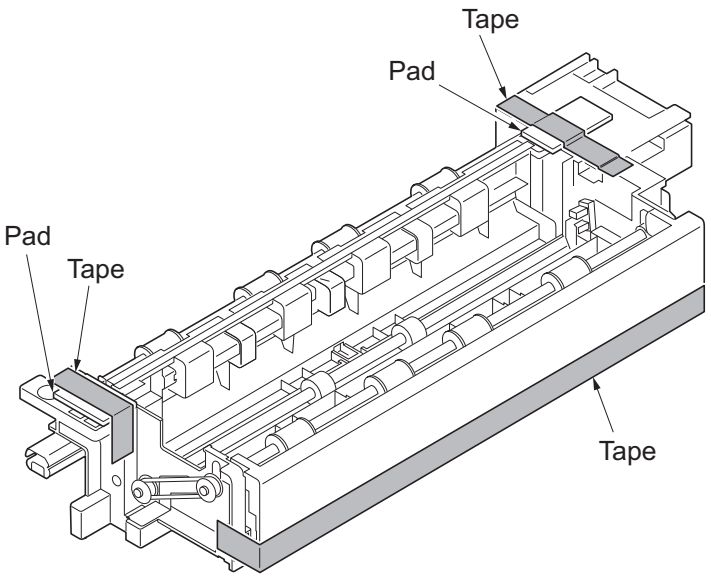

Figure 1-2-12

11. Remove tape from the bridge drive unit.

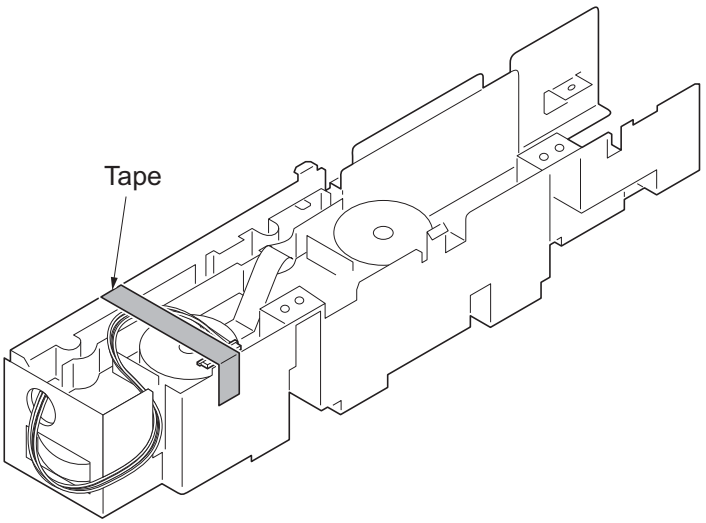

Figure 1-2-13

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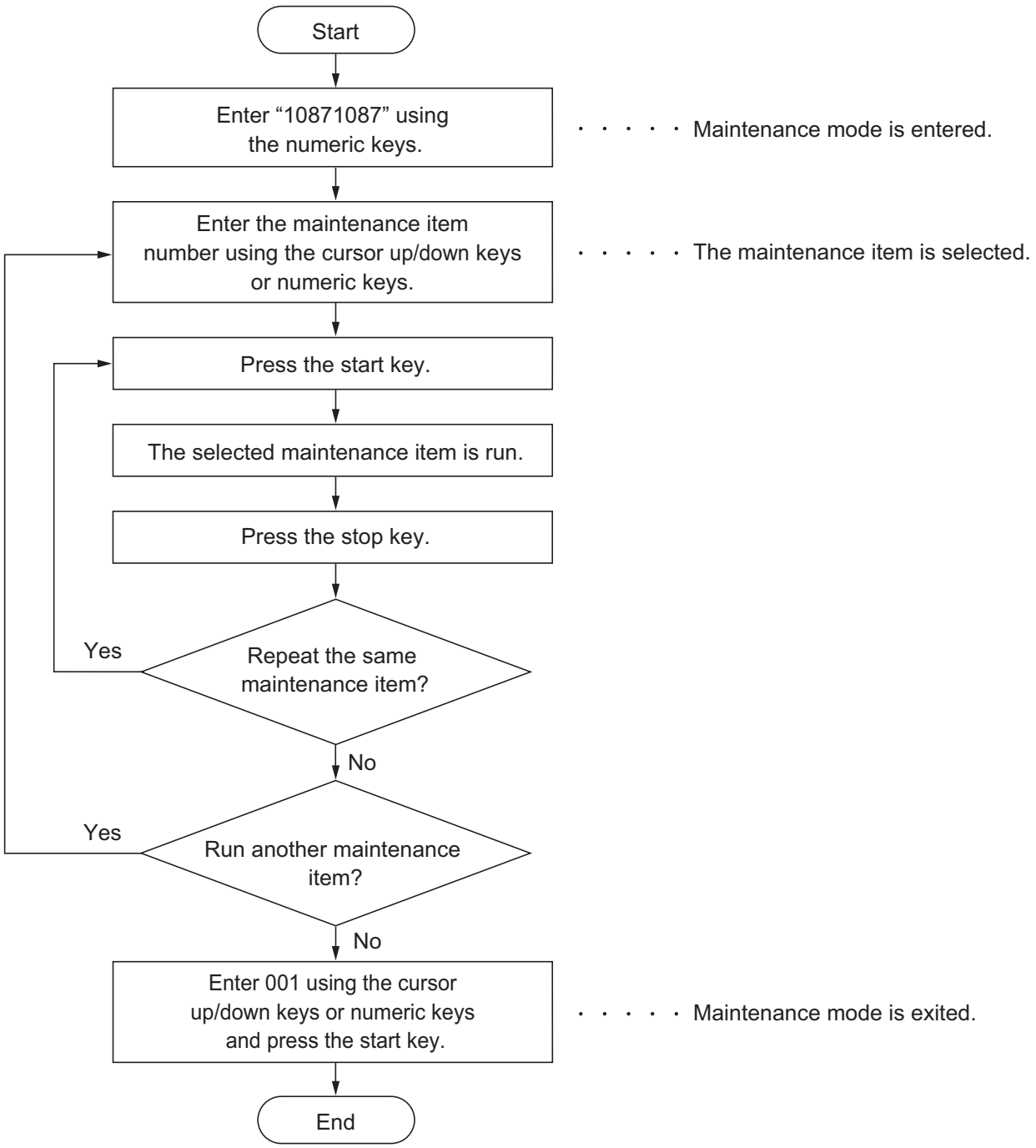
1-3-1 Maintenance mode

The machine is equipped with a maintenance function which can be used to maintain and service the machine.

(1) Executing a maintenance item


Start
Enter “10871087” using the numeric keys.
・・・・・ Maintenance mode is entered.
Enter the maintenance item number using the cursor up/down keys or numeric keys.
・・・・・ The maintenance item is selected.
Press the start key.
The selected maintenance item is run.
Press the stop key.
Repeat the same maintenance item?
Yes
No
Run another maintenance item?
Yes
No
Enter 001 using the cursor up/down keys or numeric keys and press the start key.
・・・・・ Maintenance mode is exited.
End

(2) Maintenance modes item list

Section	Item No.	Content of maintenance item	Initial setting
General	U019	Displaying the ROM version	-
Others	U905	Checking counts by optional devices	-

Contents of the maintenance mode items

<table>
<tr><th>Item No.</th><th>Description</th></tr>
<tr><td>U019</td><td>
Displaying the ROM version

Description
Displays the part number of the ROM fitted to each PWB.
Purpose
To check the part number or to decide, if the newest version of ROM is installed.

Method
1. Press the start key. The ROM version are displayed.
2. Change the screen using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>Main</td><td>Main ROM</td></tr>
<tr><td>MMI</td><td>Operation ROM</td></tr>
<tr><td>Browser</td><td>Browser ROM</td></tr>
<tr><td>Engine</td><td>Engine ROM</td></tr>
<tr><td>Engine Boot</td><td>Engine booting</td></tr>
<tr><td>Scanner</td><td>Scanner ROM</td></tr>
<tr><td>Scanner Boot</td><td>Scanner booting</td></tr>
<tr><td>RFID</td><td>RFID ROM</td></tr>
<tr><td>IH CPU</td><td>IH CPU ROM</td></tr>
<tr><td>IH CPU Boot</td><td>IH CPU booting</td></tr>
<tr><td>Motor CPU</td><td>Motor CPU ROM</td></tr>
<tr><td>Motor CPU Boot</td><td>Motor CPU booting</td></tr>
<tr><td>Dictionary</td><td>-</td></tr>
<tr><td>Option Language</td><td>Optional language ROM</td></tr>
<tr><td>PDF1.7 Resource</td><td>PDF1.7 resource ROM</td></tr>
<tr><td>Solution Framework</td><td>Framework ROM</td></tr>
<tr><td>FMU</td><td>FMU ROM</td></tr>
<tr><td>Weekly Timer</td><td>Weekly Timer ROM</td></tr>
<tr><td>Color Table1(Copy)</td><td>Color table 1 (copy) ROM</td></tr>
<tr><td>Color Table2(Copy)</td><td>Color table 2 (copy) ROM</td></tr>
<tr><td>Color Table1(Prn)</td><td>Color table 1 (printer) ROM</td></tr>
<tr><td>Color Table2(Prn)</td><td>Color table 2 (printer) ROM</td></tr>
<tr><td>DP</td><td>Document processor ROM</td></tr>
<tr><td>DP Boot</td><td>Document processor booting</td></tr>
<tr><td>PF1</td><td>Paper feeder / Large capacity feeder ROM</td></tr>
<tr><td>PF1 Boot</td><td>Paper feeder / Large capacity feeder booting</td></tr>
<tr><td>Side PF</td><td>SMT paper feeder /Side feeder ROM</td></tr>
</table>
</td></tr>
</table>

Item No.	Description
U019	

Display	Description
Side PF Boot	SMT paper feeder /Side feeder booting
PF2	Side paper feeder / Side large capacity feeder ROM
PF2 Boot	Side paper feeder / Side large capacity feeder booting
DF	1000-sheet finisher / 4000-sheet finisher ROM
DF Boot	1000-sheet finisher / 4000-sheet finisher booting
PH	Punch unit ROM
PH Boot	Punch unit booting
MT	Mailbox ROM
MT Boot	Mailbox booting
BF	Center-folding unit ROM
BF Boot	Center-folding unit booting
Fax APL1	Fax APL 1
Fax Boot1	Fax booting 1
Fax IPL1	Fax IPL 1
Fax APL2	Fax APL 2 (dual Fax)
Fax Boot2	Fax booting 2 (dual Fax)
Fax IPL2	Fax IPL 2 (dual Fax)

Completion

Press the stop key. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Item No.</th><th>Description</th></tr>
<tr><td>U905</td><td>
Checking counts by optional devices

Description
Displays the counts of DP, 1000-sheet or 4000-sheet finisher.
Purpose
To check the use of DP, 1000-sheet or 4000-sheet finisher.

Method
1. Press the start key.
2. Select the device, the count of which is to be checked.
The count of the selected device is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>DP</td><td>Counts of DP</td></tr>
<tr><td>DF</td><td>Counts of 1000-sheet or 4000-sheet finisher</td></tr>
</table>
Method: [DP]
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ADP</td><td>No. of single-sided originals that has passed through the DP</td></tr>
<tr><td>RADP</td><td>No. of double-sided originals that has passed through the DP</td></tr>
<tr><td>CIS</td><td>No. of dual scan originals that has passed through the DP</td></tr>
</table>
Method: [DF]
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>Sorter</td><td>No. of copies that has passed</td></tr>
<tr><td>Staple</td><td>Frequency the stapler has been activated</td></tr>
<tr><td>Punch</td><td>Frequency the punch has been activated</td></tr>
<tr><td>Stack*</td><td>Frequency the stacker has been activated</td></tr>
<tr><td>Saddle*</td><td>Frequency the saddle eject has been activated</td></tr>
<tr><td>Fold*</td><td>Frequency the center holding has been activated</td></tr>
<tr><td>Three Fold*</td><td>Frequency the tri-holding has been activated</td></tr>
</table>
* : 4000-sheet finisher only

Completion
Press the stop key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

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1-4-1 Paper misfeed detection

(1) Paper misfeed indication

When a paper misfeed occurs, the machine immediately stops printing and displays the paper misfeed message on the operation panel. To remove paper misfed in the machine, pull out the cassette, open the paper conveying unit or paper conveying cover.

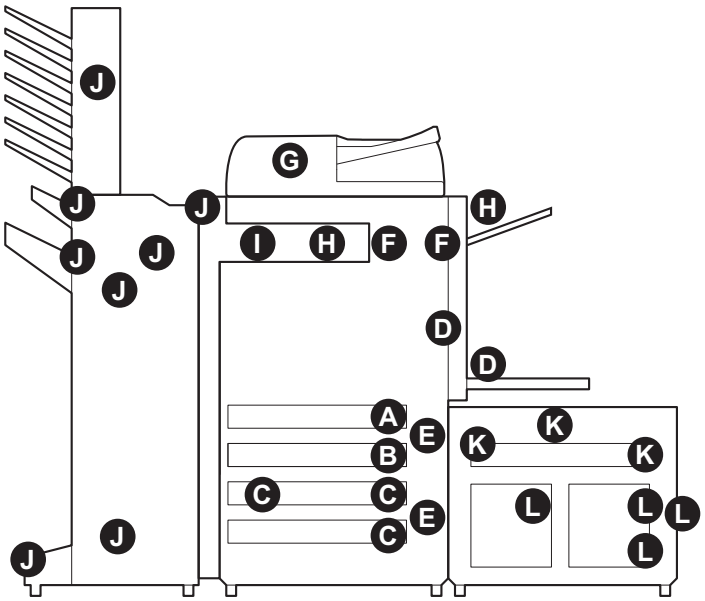

Figure 1-4-1 Paper misfeed indication

A. Misfeed in cassette 1
B. Misfeed in cassette 2
C. Misfeed in cassette 3 or 4 (option)
D. Misfeed in the MP tray
E. Misfeed in paper conveying unit, paper conveying cover or PF paper conveying cover
F. Misfeed in the fuser section
G. Misfeed in document processor (option)
H. Misfeed in job separator (option)
I. Misfeed in bridge unit (option)
J. Misfeed in document finisher (option)
K. Misfeed in cassette 5 (option)
L. Misfeed in cassette 6 or 7 (option)

(2) Paper misfeed detection condition

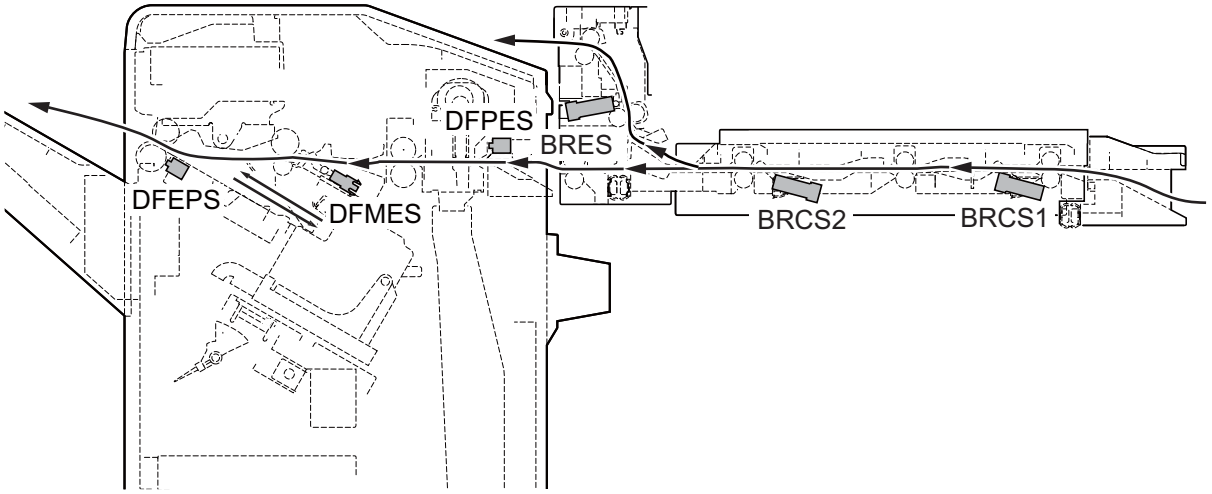

Figure 1-4-2 Paper jam location

Code	Contents	Conditions	Jam location*
0114	Bridge cover open	The bridge cover is opened during printing.	I
0115	Bridge eject cover open	The bridge eject cover is opened during printing.	I
4901	Bridge conveying sensor 1 non arrival jam	Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 1.	F
4902		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 2.	F
4903		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 3 (paper feeder).	F
4904		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 4 (paper feeder).	F
4905		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 5 (SMT paper feeder).	F
4906		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 6 (side paper feeder).	F
4907		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 7 (side paper feeder).	F
4908		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from duplex section.	F
4909		Bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from MP tray.	F

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
4911	Bridge conveying sensor 1 stay jam	Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 1.	I
4912		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 2.	I
4913		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 3 (paper feeder).	I
4914		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 4 (paper feeder).	I
4915		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 5 (SMT paper feeder).	I
4916		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 6 (side paper feeder).	I
4917		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 7 (side paper feeder).	I
4918		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from duplex section.	I
4919		Bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from MP tray.	I
5001	Bridge conveying sensor 2 non arrival jam	Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 1.	I
5002		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 2.	I
5003		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 3 (paper feeder).	I
5004		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 4 (paper feeder).	I
5005		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 5 (SMT paper feeder).	I
5006		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 6 (side paper feeder).	I
5007		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from cassette 7 (side paper feeder).	I

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
5008	Bridge conveying sensor 2 non arrival jam	Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from duplex section.	I
5009		Bridge conveying sensor 2 (BRCS2) does not turn on during paper feed from MP tray.	I
5011	Bridge conveying sensor 2 stay jam	Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 1.	I
5012		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 2.	I
5013		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 3 (paper feeder).	I
5014		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 4 (paper feeder).	I
5015		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 5 (SMT paper feeder).	I
5016		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 6 (side paper feeder).	I
5017		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from cassette 7 (side paper feeder).	I
5018		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from duplex section.	I
5019		Bridge conveying sensor 2 (BRCS2) does not turn off during paper feed from MP tray.	I
5101	Bridge eject sensor non arrival jam	Bridge eject sensor (BRES) does not turn on during paper feed from cassette 1.	I
5102		Bridge eject sensor (BRES) does not turn on during paper feed from cassette 2.	I
5103		Bridge eject sensor (BRES) does not turn on during paper feed from cassette 3 (paper feeder).	I
5104		Bridge eject sensor (BRES) does not turn on during paper feed from cassette 4 (paper feeder).	I
5105		Bridge eject sensor (BRES) does not turn on during paper feed from cassette 5 (SMT paper feeder).	I
5106		Bridge eject sensor (BRES) does not turn on during paper feed from cassette 6 (side paper feeder).	I

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
5107	Bridge eject sensor non arrival jam	Bridge eject sensor (BRES) does not turn on during paper feed from cassette 7 (side paper feeder).	I
5108		Bridge eject sensor (BRES) does not turn on during paper feed from duplex section.	I
5109		Bridge eject sensor (BRES) does not turn on during paper feed from MP tray.	I
5111	Bridge eject sensor stay jam	Bridge eject sensor (BRES) does not turn off during paper feed from cassette 1.	I
5112		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 2.	I
5113		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 3 (paper feeder).	I
5114		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 4 (paper feeder).	I
5115		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 5 (SMT paper feeder).	I
5116		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 6 (side paper feeder).	I
5117		Bridge eject sensor (BRES) does not turn off during paper feed from cassette 7 (side paper feeder).	I
5118		Bridge eject sensor (BRES) does not turn off during paper feed from duplex section.	I
5119		Bridge eject sensor (BRES) does not turn off during paper feed from MP tray.	I
6000	DF paper entry error	DF paper entry sensor (DFPES) turns on before the eject signal is output from the machine (4000-sheet finisher).	J
6001		DF paper entry sensor (DFPES) turns on before the eject signal is output from the machine (1000-sheet finisher).	J
6020	DF front cover open	DF front upper cover is opened during operation (4000-sheet finisher)	J
6021		DF front cover is opened during operation (1000-sheet finisher)	J
6041	DF top cover open	DF top cover is opened during operation (1000-sheet finisher)	J

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
6100	DF paper entry sensor non arrival jam	DF paper entry sensor (DFPES) is not turned on even if a specified time has elapsed after the machine eject signal was received (4000-sheet finisher).	J
6101		DF paper entry sensor (DFPES) is not turned on even if a specified time has elapsed after the machine eject signal was received (1000-sheet finisher).	J
6110	DF paper entry sensor stay jam	DF paper entry sensor (DFPES) is not turned off within specified time of its turning on (4000-sheet finisher).	J
6111		DF paper entry sensor (DFPES) is not turned off within specified time of its turning on (1000-sheet finisher).	J
6120	DF paper entry sensor remaining jam	DF paper entry sensor (DFPES) does turned on when the power is turned on or cover close (4000-sheet finisher).	J
6121		DF paper entry sensor (DFPES) does turned on when the power is turned on or cover close (1000-sheet finisher).	J
6200	DF sub eject sensor non arrival jam	DF sub eject sensor (DFSES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on.	J
6210	DF sub eject sensor stay jam	DF sub eject sensor (DFSES) is not turned off within specified time of its turning on.	J
6220	DF sub eject sensor remaining jam	DF sub eject sensor (DFSES) does turned on when the power is turned on or cover close.	J
6300	DF middle eject sensor non arrival jam	DF middle eject sensor (DFMES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on (4000-sheet finisher).	J
6301		DF middle eject sensor (DFMES) does not turn on within specified time of DF paper entry sensor (DFPES) turning on (1000-sheet finisher).	J
6310	DF middle eject sensor stay jam	DF middle eject sensor (DFMES) is not turned off within specified time of its turning on (4000-sheet finisher).	J
6311		DF middle eject sensor (DFMES) is not turned off within specified time of its turning on (1000-sheet finisher) .	J

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
6320	DF middle eject sensor remaining jam	DF middle eject sensor (DFMES) does turned on when the power is turned on or cover close (4000-sheet finisher).	J
6321		DF middle eject sensor (DFMES) does turned on when the power is turned on or cover close (1000-sheet finisher).	J
6400	DF tray upper surface sensor non arrival jam	DF tray upper surface sensor (DFTUSS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on (4000-sheet finisher).	J
6401		DF tray upper surface sensor (DFTUSS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on (1000-sheet finisher).	J
6410	DF tray upper surface sensor stay jam	DF tray upper surface sensor (DFTUSS) is not turned off within specified time of its turning on (4000-sheet finisher).	J
6411		DF tray upper surface sensor (DFTUSS) is not turned off within specified time of its turning on (1000-sheet finisher).	J
6420	DF tray upper surface sensor remaining jam	DF tray upper surface sensor (DFTUSS) does turned on when the power is turned on or cover close (4000-sheet finisher).	J
6421		DF tray upper surface sensor (DFTUSS) does turned on when the power is turned on or cover close (1000-sheet finisher).	J
6500	DF bundle discharge sensor non arrival jam	DF bundle discharge sensor (DFBDS) does not turn on within specified time of DF middle eject sensor (DFMES) turning on.	J
6510	DF bundle discharge sensor stay jam	DF bundle discharge sensor (DFBDS) is not turned off since the bundle discharge starts (4000-sheet finisher).	J
6511		DF bundle discharge sensor (DFBDS) is not turned off since the bundle discharge starts (1000-sheet finisher).	J
6810	DF side registration sensor 1 stay jam	DF side registration sensor 1 (DFSRS1) is not turned off within specified time after driving the DF side registration motor 1 (DFSRM1) (4000-sheet finisher).	J
6811		DF side registration sensor 1 (DFSRS1) is not turned off within specified time after driving the DF side registration motor 1 (DFSRM1) (1000-sheet finisher) .	J

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

Code	Contents	Conditions	Jam location*
6910	DF side registration sensor 2 stay jam	DF side registration sensor 2 (DFSRS2) is not turned off within specified time after driving the DF side registration motor 2 (DFSRM2) (4000-sheet finisher).	J
6811		DF side registration sensor 2 (DFSRS2) is not turned off within specified time after driving the DF side registration motor 2 (DFSRM2) (1000-sheet finisher).	J
7000	DF staple operation error	DF staple sensor (DFSTS) is not turned on within specified time after driving the DF staple motor (DFSTM) (4000-sheet finisher).	J
7001		DF staple sensor (DFSTS) is not turned on within specified time after driving the DF staple motor (DFSTM) (1000-sheet finisher).	J
7950	Paper interval error jam	An illegal inter-page or inter-copy interval has occurred (4000-sheet finisher).	J
7951		An illegal inter-page or inter-copy interval has occurred (1000-sheet finisher).	J

*: Refer to figure 1-4-1 for paper misfeed indication (see page 1-4-1).

1-4-2 Self-diagnostic function

(1) Self-diagnostic function

This machine is equipped with self-diagnostic function. When a problem is detected, the machine stops printing and display an error message on the operation panel. An error message consists of a message prompting a contact to service personnel and a four-digit error code indicating the type of the error.

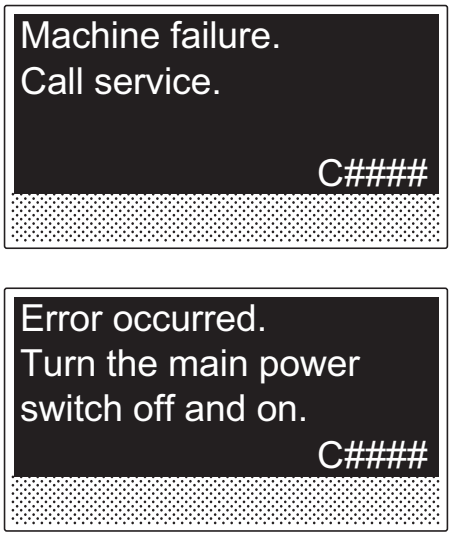

Figure 1-4-3

(2) Self diagnostic codes

If the part causing the problem was not supplied, use the unit including the part for replacement.

Code	Contents	Causes	Check procedures/ corrective measures
8010	**Punch motor error 1** When the punch motor is driven, punch home position sensor does not turn on within 200 ms.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch home position sensor and punch PWB (YC8) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch home position sensor and punch PWB (YC8) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch home position sensor.	Replace the punch home position sensor.
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8020	**Punch motor error 2** Home position is not obtained in 3 seconds after home position is initialized or in standby.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8030	**Punch motor error 3** Home position does not turn from On to Off in 50 ms after home position has been initialized.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch motor and punch PWB (YC4) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch motor.	Replace the punch motor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8090	**DF paddle motor error** When the DF paddle motor is driven, DF paddle sensor does not turn on within 1 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF paddle motor and DF main PWB (YC15) DF paddle sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF paddle motor and DF main PWB (YC11) DF paddle sensor and DF main PWB (YC20)
		Defective DF paddle sensor.	Replace the DF paddle sensor.
		Defective DF paddle motor.	Replace the DF paddle motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8100	**DF eject release motor error** When the DF eject release motor is driven, DF bundle discharge sensor does not turn on within 1 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject release motor and DF main PWB (YC12) DF bundle discharge sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject release motor and DF main PWB (YC10) DF bundle discharge sensor and DF main PWB (YC20)
		Defective DF bundle discharge sensor.	Replace the DF bundle discharge sensor.
		Defective DF eject release motor.	Replace the DF eject release motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8110	**DF shift motor 1 error** When the DF shift motor 1 is driven, DF shift sensor 1 does not turn on within 160 ms.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF shift motor 1 and DF main PWB (YC14) DF shift sensor 1 and DF main PWB (YC23)
		Defective DF shift sensor 1.	Replace the DF shift sensor 1.
		Defective DF shift motor 1.	Replace the DF shift motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8120	**DF shift motor 2 error** When the DF shift motor 2 is driven, DF shift sensor 2 does not turn on within 160 ms.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF shift motor 2 and DF main PWB (YC14) DF shift sensor 2 and DF main PWB (YC23)
		Defective DF shift sensor 2.	Replace the DF shift sensor 2.
		Defective DF shift motor 2.	Replace the DF shift motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8130	**DF shift release motor error** When the DF shift release motor is driven, DF shift release sensor does not turn on within 1 s.	Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF shift release motor and DF main PWB (YC14) DF shift release sensor and DF main PWB (YC23)
		Defective DF shift release sensor.	Replace the DF shift release sensor.
		Defective DF shift release motor.	Replace the DF shift release motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8140	**DF tray motor error 1** When the main tray has started ascending, DF tray sensor 1 or DF tray upper surface sensor does not turn on within 20 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 1 and DF main PWB (YC22) DF tray upper surface sensor and DF main PWB (YC21, YC13)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 1 and DF main PWB (YC20) DF tray upper surface sensor and DF main PWB (YC18)
		Defective sensor.	Replace DF tray sensor 1 or DF tray upper surface sensor.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8150	**DF tray motor error 2** When the main tray has descended, DF tray sensor 1 or DF tray upper surface sensor does not turn off within 5 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 1 and DF main PWB (YC22) DF tray upper surface sensor and DF main PWB (YC21, YC13)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 1 and DF main PWB (YC20) DF tray upper surface sensor and DF main PWB (YC18)
		Defective sensor.	Replace DF tray sensor 1 or DF tray upper surface sensor.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8160	**DF tray motor error 3** When the main tray has descended, DF tray sensor 3 does not turn on within 20 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC16) DF tray sensor 3 and DF main PWB (YC23)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14) DF tray sensor 3 and DF main PWB (YC20)
		Defective DF tray sensor 3.	Replace DF tray sensor 3.
		Defective DF tray motor.	Replace the DF tray motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8170	**DF side registration motor 1 error 1** When initial operation, DF side registration sensor 1 does not turn on within 3 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC15) DF side registration sensor 1 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC11) DF side registration sensor 1 and DF main PWB (YC20)
		Defective DF side registration sensor 1.	Replace DF side registration sensor 1.
		Defective DF side registration motor 1.	Replace DF side registration motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8180	**DF side registration motor 1 error 2** JAM6810 is detected twice.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC15) DF side registration sensor 1 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 1 and DF main PWB (YC11) DF side registration sensor 1 and DF main PWB (YC20)
		Defective DF side registration sensor 1.	Replace DF side registration sensor 1.
		Defective DF side registration motor 1.	Replace DF side registration motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8190	**DF side registration motor 2 error 1** When initial operation, DF side registration sensor 2 does not turn on within 3 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC15) DF side registration sensor 2 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC11) DF side registration sensor 2 and DF main PWB (YC20)
		Defective DF side registration sensor 2.	Replace DF side registration sensor 2.
		Defective DF side registration motor 2.	Replace DF side registration motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8200	**DF side registration motor 2 error 2** JAM6910 is detected twice.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC15) DF side registration sensor 2 and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF side registration motor 2 and DF main PWB (YC11) DF side registration sensor 2 and DF main PWB (YC20)
		Defective DF side registration sensor 2.	Replace DF side registration sensor 2.
		Defective DF side registration motor 2.	Replace DF side registration motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8210	**DF slide motor error** When initial operation, DF staple sensor does not turn on within 3 s.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF slide motor and DF main PWB (YC12) DF staple sensor and DF main PWB (YC22)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF slide motor and DF main PWB (YC10) DF staple sensor and DF main PWB (YC20)
		Defective DF staple sensor.	Replace the DF staple sensor.
		Defective DF slide motor.	Replace the DF slide motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8230	**DF staple motor error** JAM7000 is detected twice.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC17)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Staple unit and DF main PWB (YC11)
		Defective DF staple sensor.	Replace the staple unit.
		Defective DF staple motor.	
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8410	**Punch slide motor error 1** The punch slide sensor won't turn On when home position has been moved by 30 mm.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch slide sensor and punch PWB (YC6) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch slide sensor and punch PWB (YC6) Punch PWB (YC1) and DF main PWB (YC8)
		Defective slide sensor.	Replace the punch slide sensor.
		Defective punch slide motor.	Replace the punch slidemotor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8420	**Punch slide motor error 2** In detection of paper edges, the paper edge cannot be detected in 30 mm move.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch slide motor and punch PWB (YC3) Punch PWB (YC1) and DF main PWB (YC8)
		Defective punch slide motor.	Replace the punch slidemotor.
		Defective PWB.	Replace the punch PWB or DF main PWB and check for correct operation.
8430	**Punch unit communication error** Communication with the punch unit is not possible.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch PWB (YC1) and DF main PWB (YC7)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Punch PWB (YC1) and DF main PWB (YC8)
		Defective PWB.	Replace the punch PWB or the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8800	**Document finisher communication error** Communication with the document finisher is not possible.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC4) and engine PWB (YC18)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC7) and engine PWB (YC18)
		Defective PWB.	Replace the DF main PWB or the engine PWB and check for correct operation.
8900	**Document finisher backup error** Read and write data does not match 3 times in succession.	Defective connector cable or poor contact in the connector (4000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC4) and engine PWB (YC18)
		Defective connector cable or poor contact in the connector (1000-sheet finisher).	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF main PWB (YC7) and engine PWB (YC18)
		Improper installation EEPROM.	Check the installation of the EEPROM and remedy if necessary.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

1-4-3 Electric problems

If the part causing the problem was not supplied, use the unit including the part for replacement.
Troubleshooting to each failure must be in the order of the numbered symptoms.

Problem	Causes	Check procedures/corrective measures
(1) DF middle motor motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF middle motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF middle motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(2) DF middle eject motor motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF middle eject motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF middle eject motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(3) DF paddle motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF paddle motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF paddle motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(4) DF eject release motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject release motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF eject release motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).

Problem	Causes	Check procedures/corrective measures
(5) DF eject motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF eject motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF eject motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(6) DF adjustment motor 1,2 does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF adjustment motor 1,2 and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF adjustment motor 1,2.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(7) Slide motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Slide motor and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the slide motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).
(8) DF tray motor does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DF tray motor and DF main PWB (YC14)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DF tray motor.
	4. Defective PWB.	Replace the DF main PWB and check for correct operation (see page 1-5-4).

Problem	Causes	Check procedures/corrective measures
(9) Bridge conveying motor1,2 does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Bridge conveying motor1,2 and DF main PWB (YC10)
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the bridge conveying motor1,2.
	4. Defective PWB.	Replace the bridge PWB and check for correct operation. (see page 1-5-4)
(10) Bridge solenoid does not operate.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Bridge solenoid and engine PWB (YC20)
	2. Defective solenoid.	Replace the bridge solenoid.
	3. Defective PWB.	Replace the engine PWB and check for correct operation .
(11) A paper jam is indicated when the main power switch is turned on.	1. A piece of paper torn from paper is caught around DF paper entrance sensor, DF middle sensor, DF eject paper sensor, bridge conveying sensor1,2 or bridge eject sensor.	Check visually and remove it, if any.
	2. Defective sensor.	Replace the DF paper entrance sensor, DF middle sensor, DF eject paper sensor, bridge conveying sensor1,2 or bridge eject sensor.
(12) [Out of staples. Add staples.] is displayed when the main power switch is turned on.	1. Defective connector cable or poor contact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Stapler empty sensor and DF main PWB (YC12)
	2. Defective stapler empty sensor.	Replace the staple unit. (see page 1-5-5)
	3. Defective PWB.	Replace the DF main PWB and check for correct operation.

1-4-4 Mechanical problems

If the part causing the problem was not supplied, use the unit including the part for replacement.

Problem	Causes/check procedures	Corrective measures
(1) Paper jams.	Paper outside specifications is used.	Use only paper conforming to the specifications.
	Check if the following rollers is deformed. Paper conveying roller Paper conveying pulley Feedshift roller Feedshift pulley Eject roller 1,2 Eject pulley 1,2 Middle roller Middle pulley Middle eject roller Middle eject pulley Eject roller Eject pulley	Check visually and replace any deformed.
	Check if the surfaces of the following rollers are dirty with paper powder. (Bridge section) Paper conveying roller Paper conveying pulley	Clean with isopropyl alcohol.
	Check if the surfaces of the following rollers are dirty with paper powder. (Bridge section) Feedshift roller Feedshift pulley	Clean with isopropyl alcohol.
	Check if the surfaces of the following rollers are dirty with paper powder. (Bridge section) Eject roller 1,2 Eject pulley 1,2	Clean with isopropyl alcohol.
	Check if the surfaces of the following rollers are dirty with paper powder. (DF section) Middle roller Middle pulley	Clean with isopropyl alcohol.
	Check if the surfaces of the following rollers are dirty with paper powder. (DF section) Middle eject roller Middle eject pulley	Clean with isopropyl alcohol.
	Check if the surfaces of the following rollers are dirty with paper powder. (DF section) Eject roller Eject pulley	Clean with isopropyl alcohol.

Problem	Causes/check procedures	Corrective measures
(2) Abnormal noise is heard.	Check if the rollers, pulleys and gears operate smoothly.	Grease the bushes and gears.

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1-5-1 Precautions for assembly and disassembly

(1) Precautions

Before starting disassembly, press the Power key on the operation panel to off. Make sure that the Power lamp is off before turning off the main power switch. And then unplug the power cable from the wall outlet.
When handling PWBs (printed wiring boards), do not touch parts with bare hands.
The PWBs are susceptible to static charge.
Do not touch any PWB containing ICs with bare hands or any object prone to static charge.
When removing the hook of the connector, be sure to release the hook.
Take care not to get the cables caught.
To reassemble the parts, use the original screws. If the types and the sizes of screws are not known, refer to the PARTS LIST.

1-5-2 Document finisher section

(1) Detaching and refitting the front cover and rear cover

Procedure

1. Open the DF front cover.
2. Remove three screws and then remove the DF front cover.(Assemble)

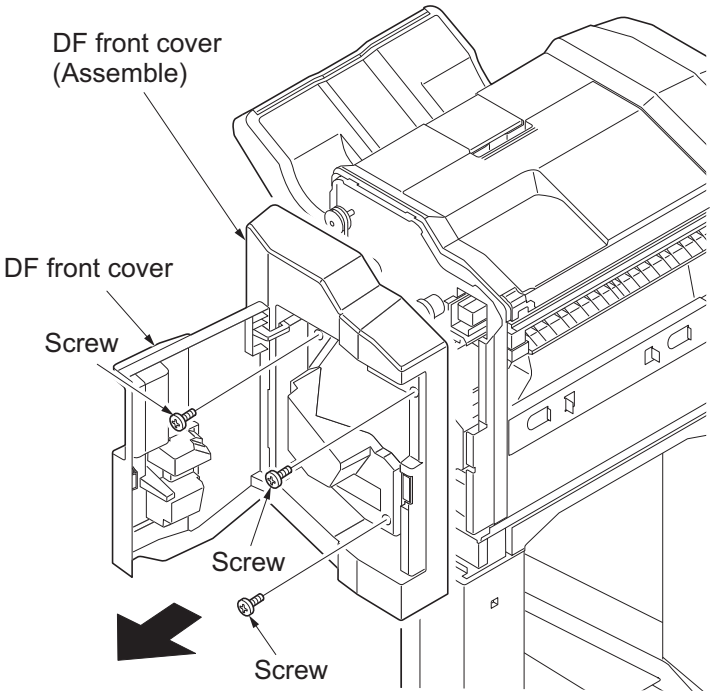


Figure 1-5-1

3. Remove screw and then remove the Lid rear cover.

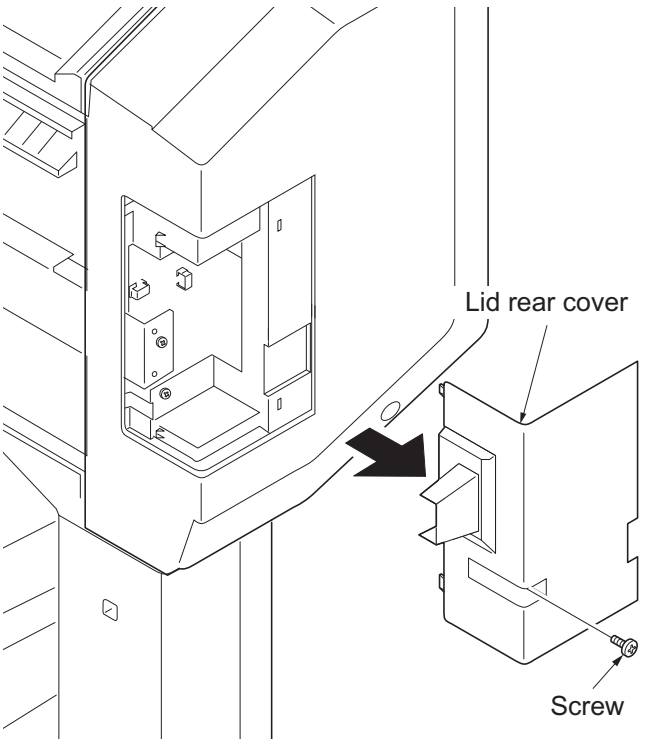


Figure 1-5-2

4. Remove two screws and then remove the DF rear cover.

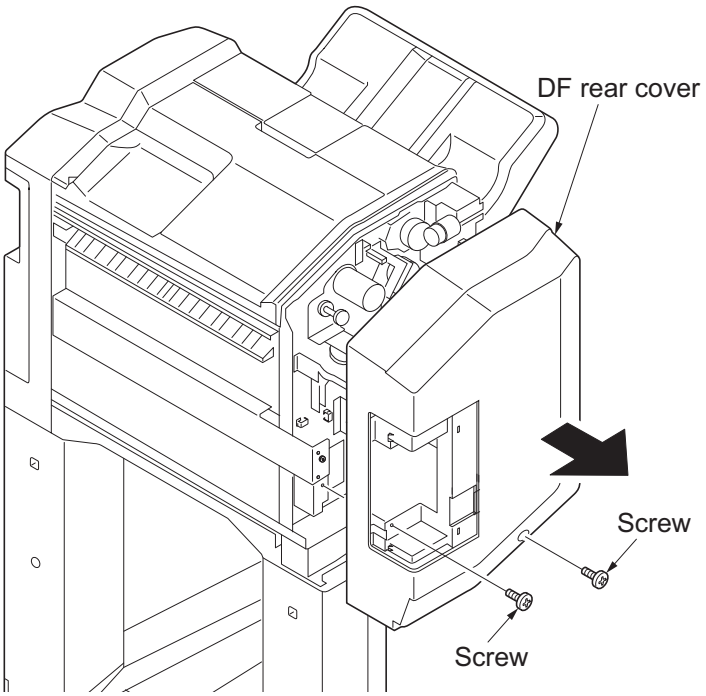


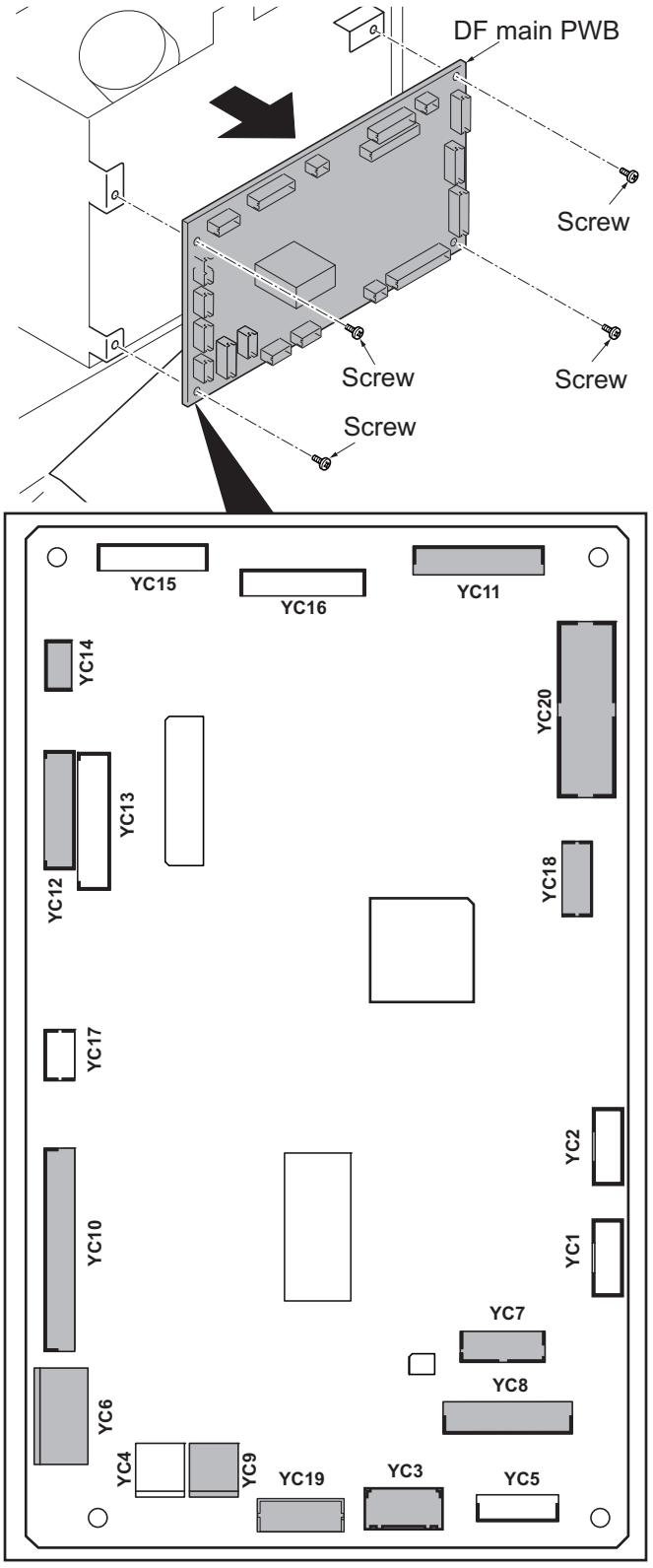
Figure 1-5-3

(2) Detaching and refitting the PF main PWB

Procedure

1. Remove the DF rear cover.
2. Remove all connectors from the DF main PWB.
3. Remove four screws.
4. Remove the DF main PWB.
5. Check or replace the DF main PWB and refit all the removed parts.

CAUTION:when replacing the DF main PWB, remove the EEPROM (U4) from the DF main PWB that has been removed and then reattach it to the new DF main PWB.



DF main PWB

Figure 1-5-4

(3) Detaching and refitting the Staple unit

Procedure

1. Open the DF front cover.

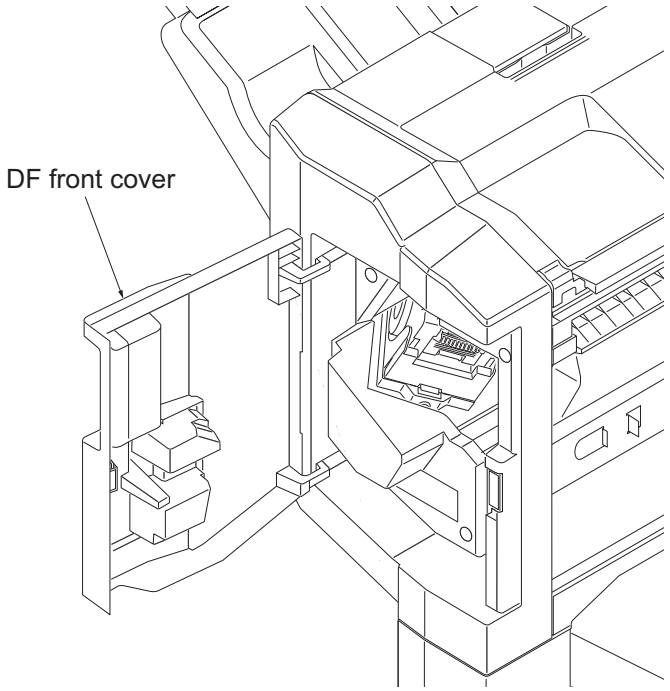


Figure 1-5-5

2. Insert a flat screwdriver under the lever of the staple cover. Lift the lever upwards to open.
3. Remove two connectors.

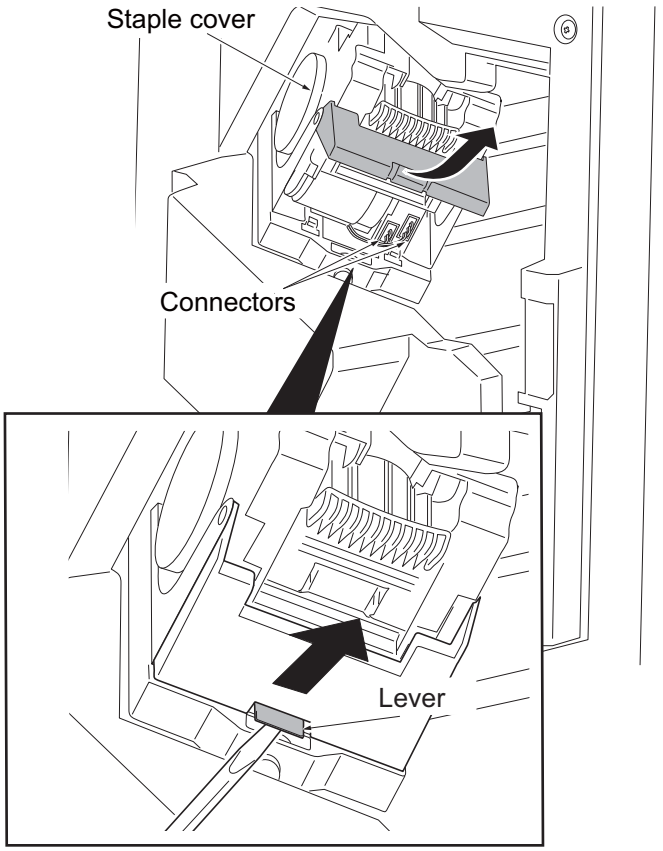


Figure 1-5-6

4. Raise the front of the staple unit and pull the staple unit frontwards.
5. Check or replace the Staple unit and refit all the removed parts.

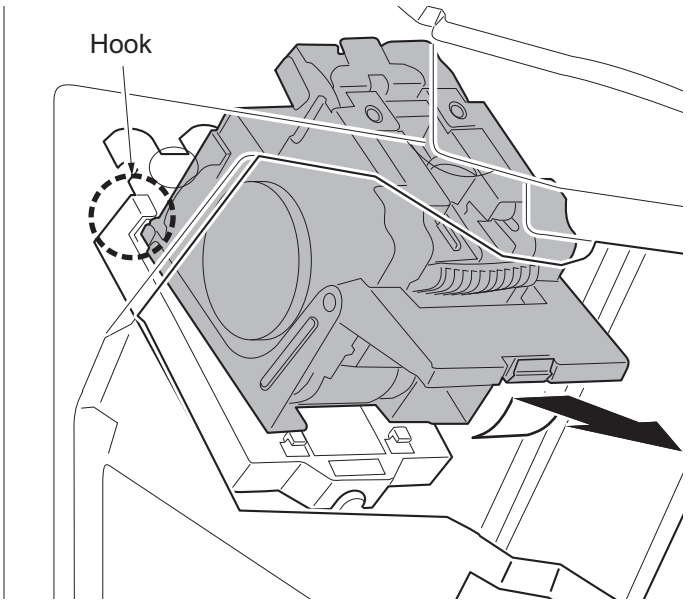
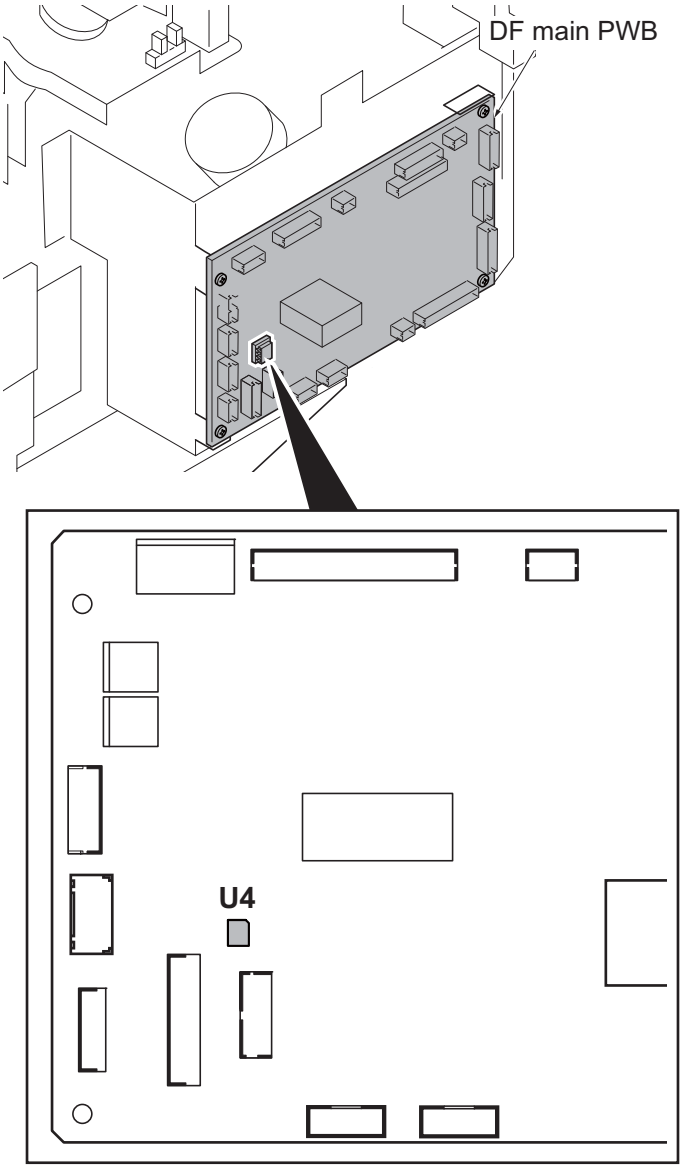


Figure 1-5-7

1-6-1 Remarks on finisher PWB replacement

When replacing the finisher PWB, remove the EEPROM (U4) from the finisher PWB that has been removed and then reattach it to the new finisher PWB.



DF main PWB

Figure 1-6-1

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2-1-1 Bridge unit section

The bridge unit section consists of the parts shown in figure below and discharges paper conveyed from the machine to the document finisher or DF sub tray.

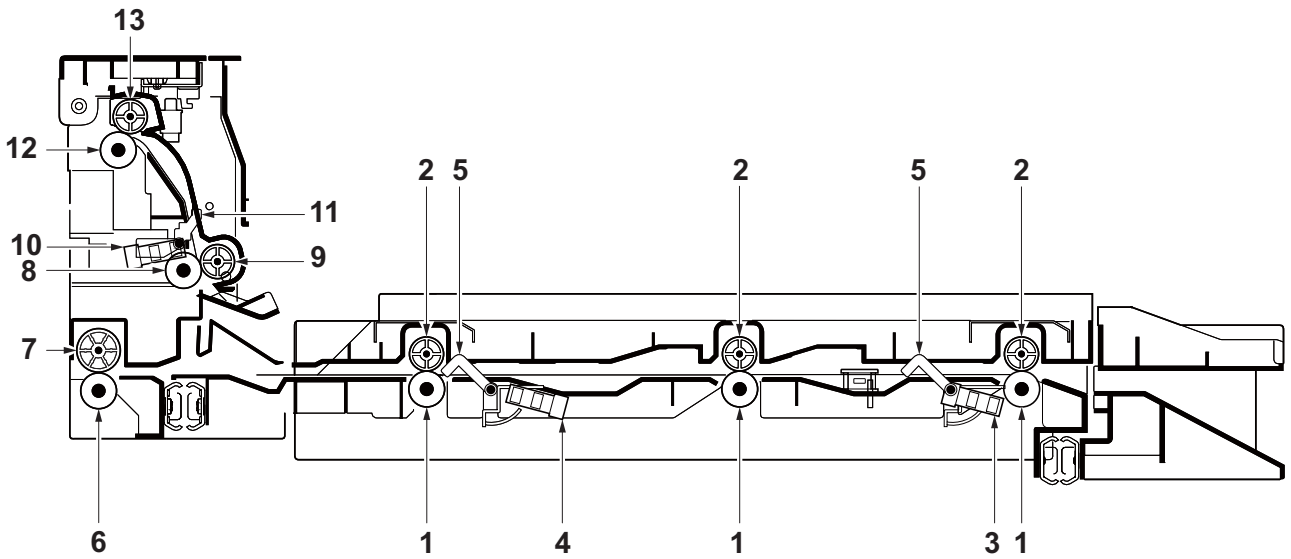

Figure 2-1-1 Bridge unit section

1. Paper conveying roller
2. Paper conveying pulley
3. Bridge conveying sensor1 (BRCS1)
4. Bridge conveying sensor2 (BRCS2)
5. Actuator(Bridge conveying sensor)
6. Eject roller 1
7. Eject pulley 1
8. Feedshift roller
9. Feedshift pulley
10. Bridge eject sensor (BRES)
11. Actuator(Bridge eject sensor)
12. Eject roller 2
13. Eject pulley 2

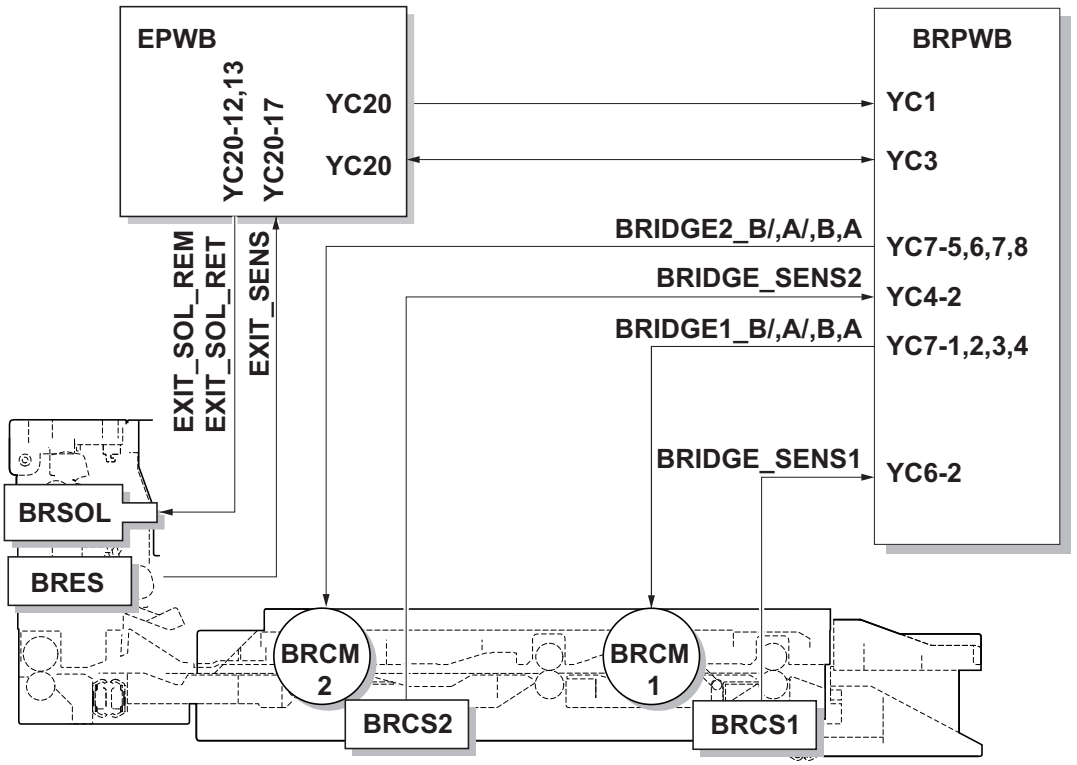

Figure 2-1-2 Bridge unit section block diagram

2-1-2 Prosessing section

The processing section consists of the parts shown in figure below and discharges paper conveyed from the bridge section to the eject tray. Also this section performs processing in the bundle discharge mode and the staple mode.

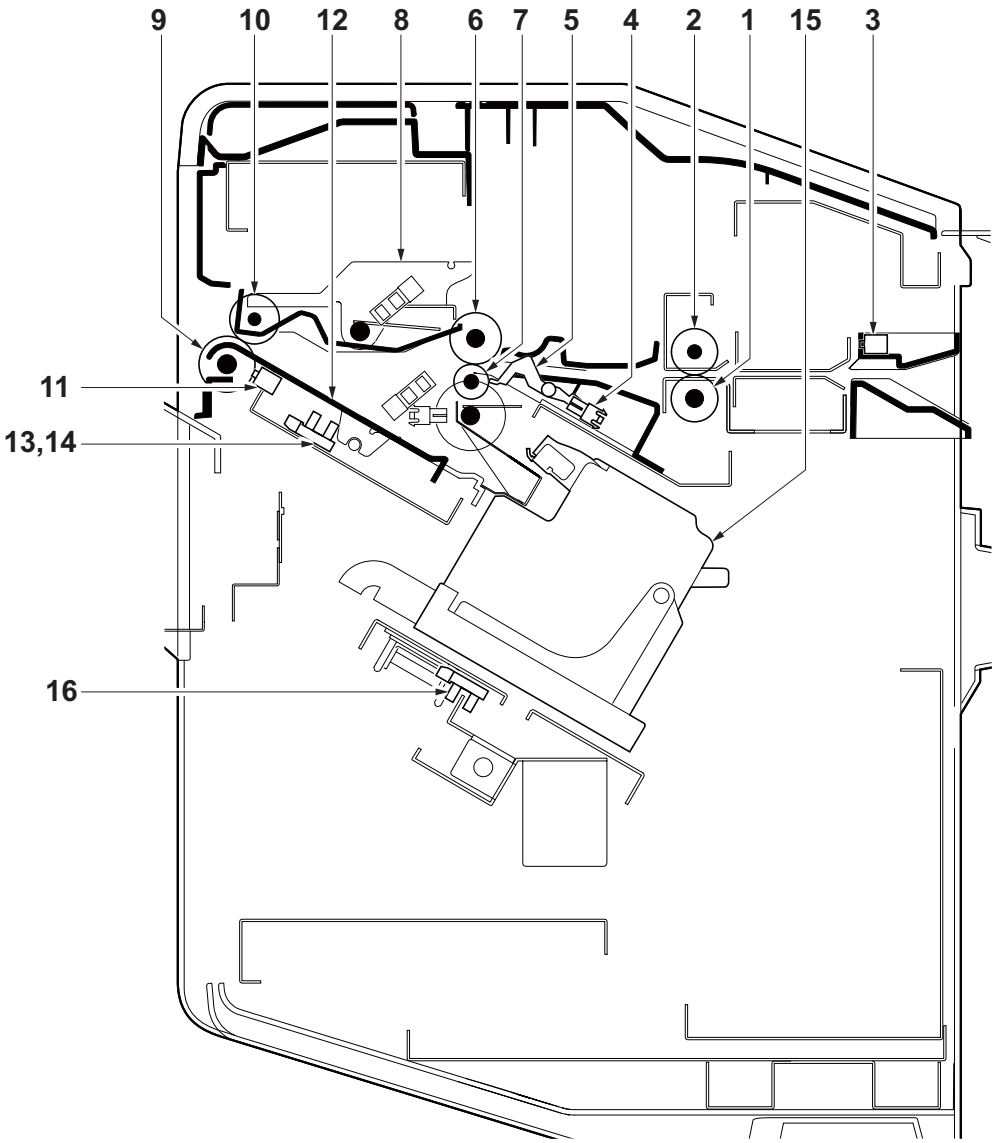

Figure 2-1-3 Processing section

1. Middle roller
2. Middle pulley
3. DF entrance sensor(DFPES)
4. DF middle sensor (DFMS)
5. Actuator (DF middle sensor)
6. Middle eject roller
7. Middle eject pulley
8. Bundle discharge unit
9. Eject roller
10. Eject pulley
11. DF eject paper sensor (DFEPS)
12. Adjustment tray
13. DF Adjustment sensor 1 (DFSDS1)
14. DF Adjustment sensor 2 (DFSDS2)
15. Staple unit
16. DF slide sensor (DFSLS)

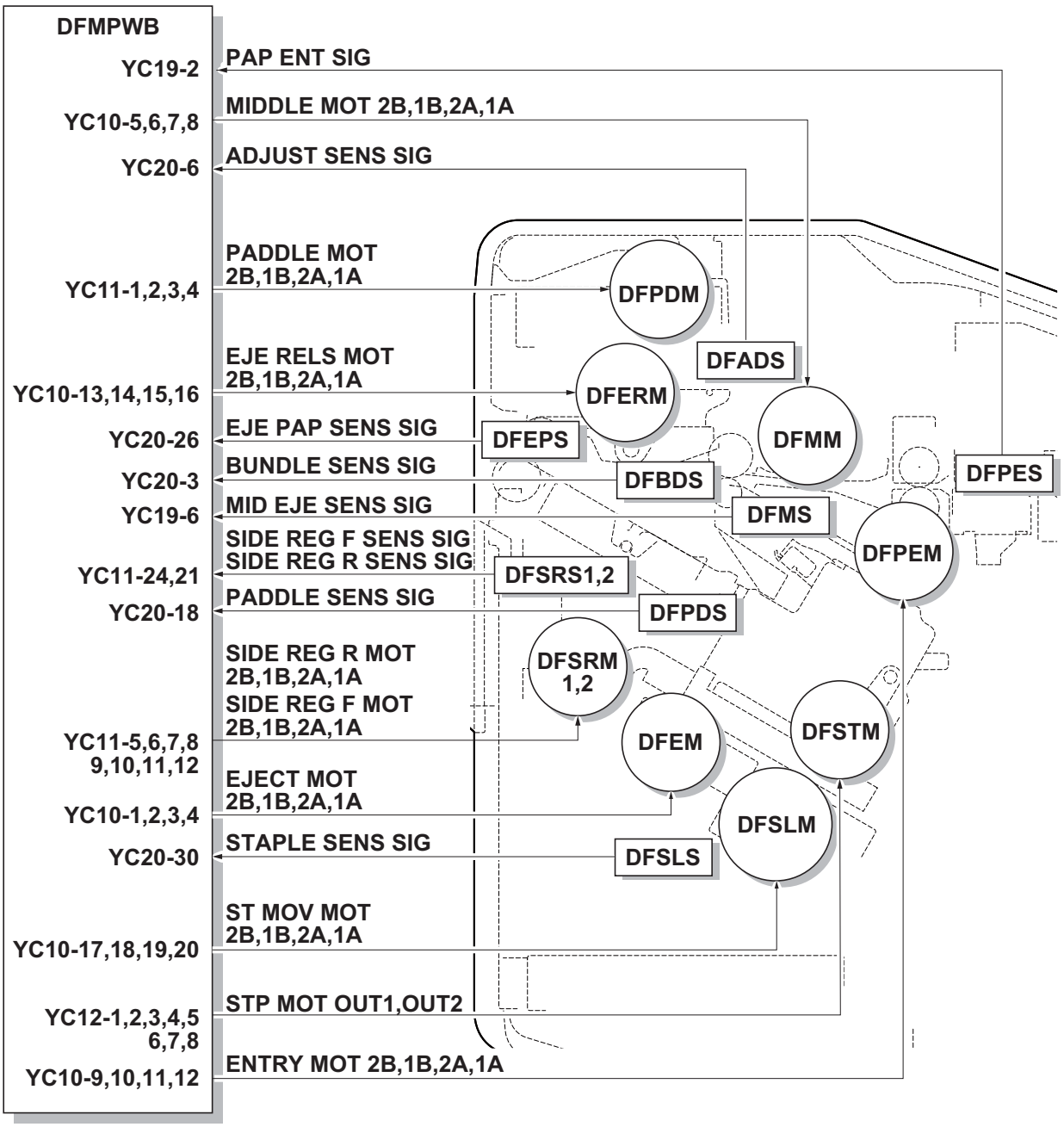

Figure 2-1-4 Processing section block diagram

(1) Bundle discharge operation

1. Paper is fed to the processing section by rotation of the middle roller and the middle eject roller. When the paper is conveyed into the processing section, the DF eject release motor is driven to raise the bundle discharge unit.

2. When the trailing edge of paper passes through the middle eject roller, the paper conveying guide lowers and the paper is fed to the adjustment tray by paddle.
   DF adjustment motors 1 and 2 activate the adjustment guide to adjust the paper.

3. When adjustment of the last sheet of the bundle is completed, the eject roller and the paddle rotate to discharge the bundle of paper to the eject tray.

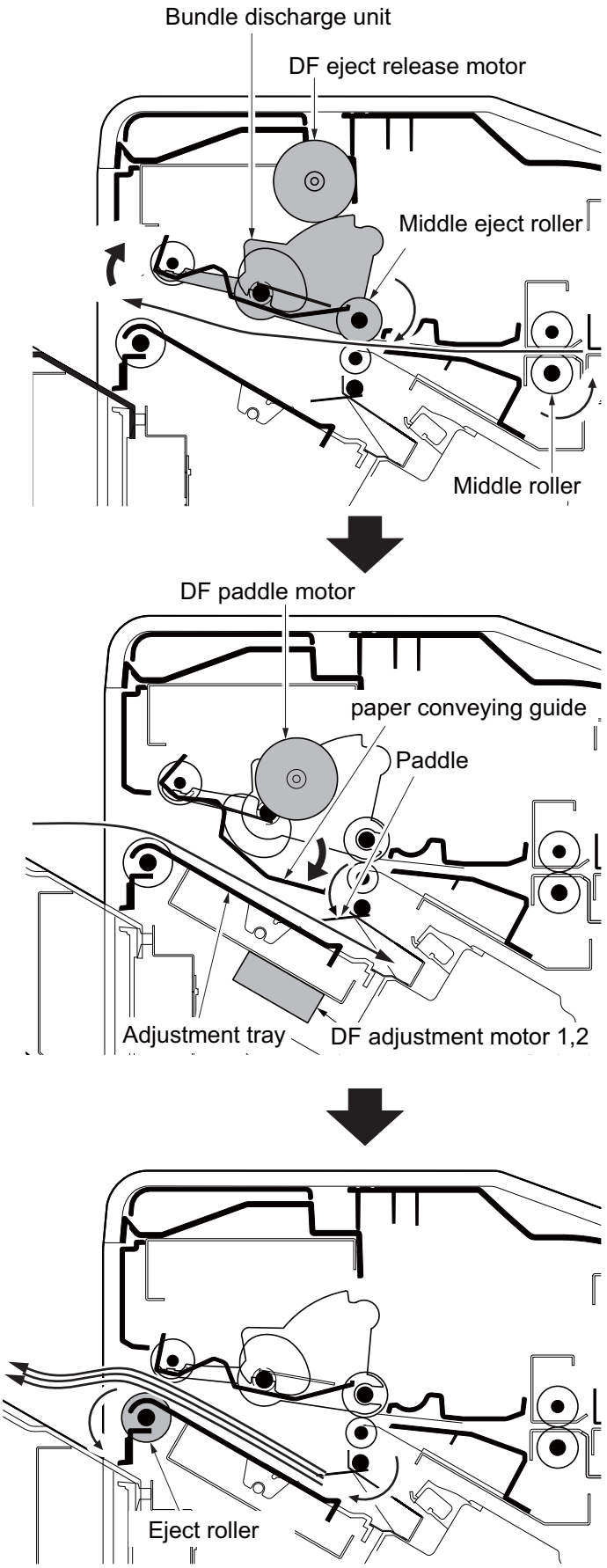

Figure 2-1-5

2-1-3 Eject tray section

The eject tray section consists of the parts shown in figure below and stocks paper discharged from the processing section.
The upper limit position ,the middle position and the lower limit position of the eject tray are detected with the DF tray sensor 1,2,3(DFTS1,2,3) . Also the paper stock quantity is detected with the DF tray surface sensor 1/2 (DFTUSS1/2).
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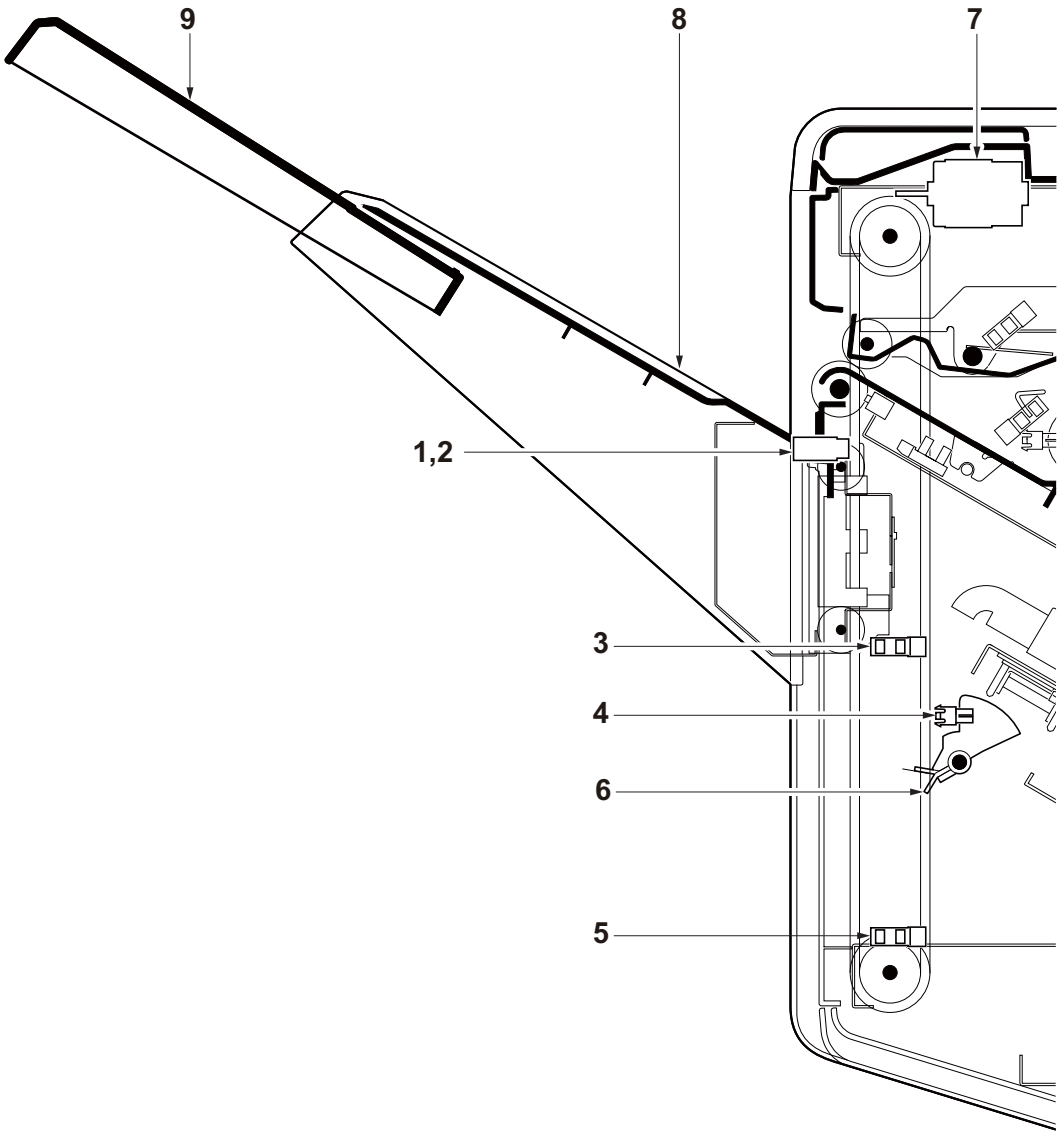

Figure 2-1-6 Eject tray section

1. DF tray surface sensor 1 (DFTUSS1)
2. DF tray surface sensor 2 (DFTUSS2)
3. DF tray sensor1(DFTS1)
4. DF tray sensor2(DFTS2)
5. DF tray sensor3(DFTS3)
6. Actuator(DF tray sensor2)
7. DF tray motor(DFTM)
8. DF Main tray(Tray A)
9. DF tray extension

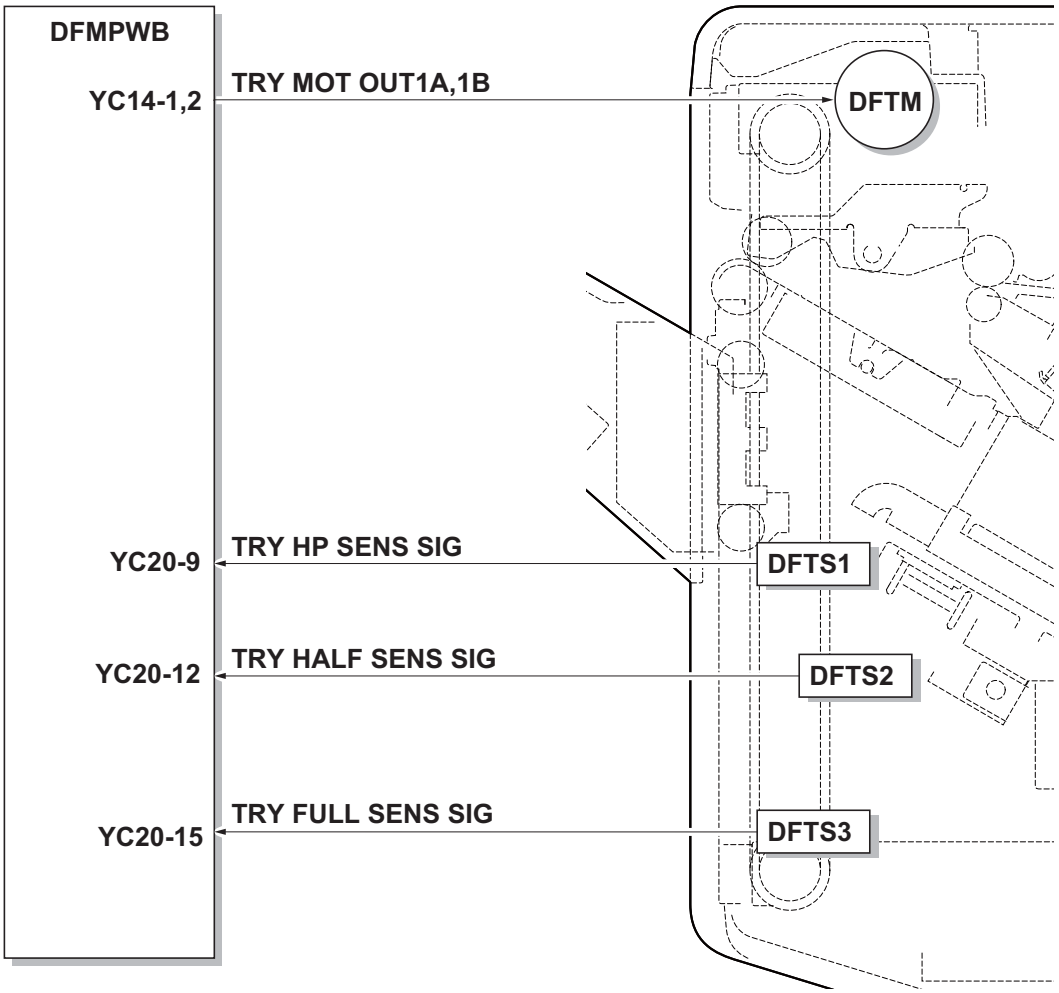

Figure 2-1-7 Eject tray section block diagram

2-1-4 Punch unit(Option)

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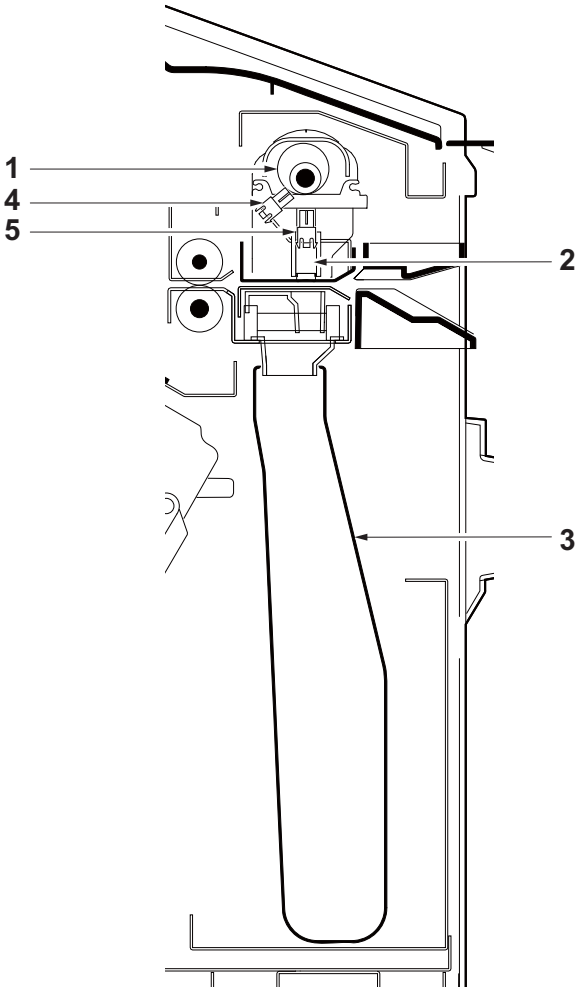

Figure 2-1-8 Punch unit

1. Punch cam
2. Punch cutter
3. Punch waste box
4. Punch home position sensor(PUHPS)
5. Punch plus sensor(PUPS)

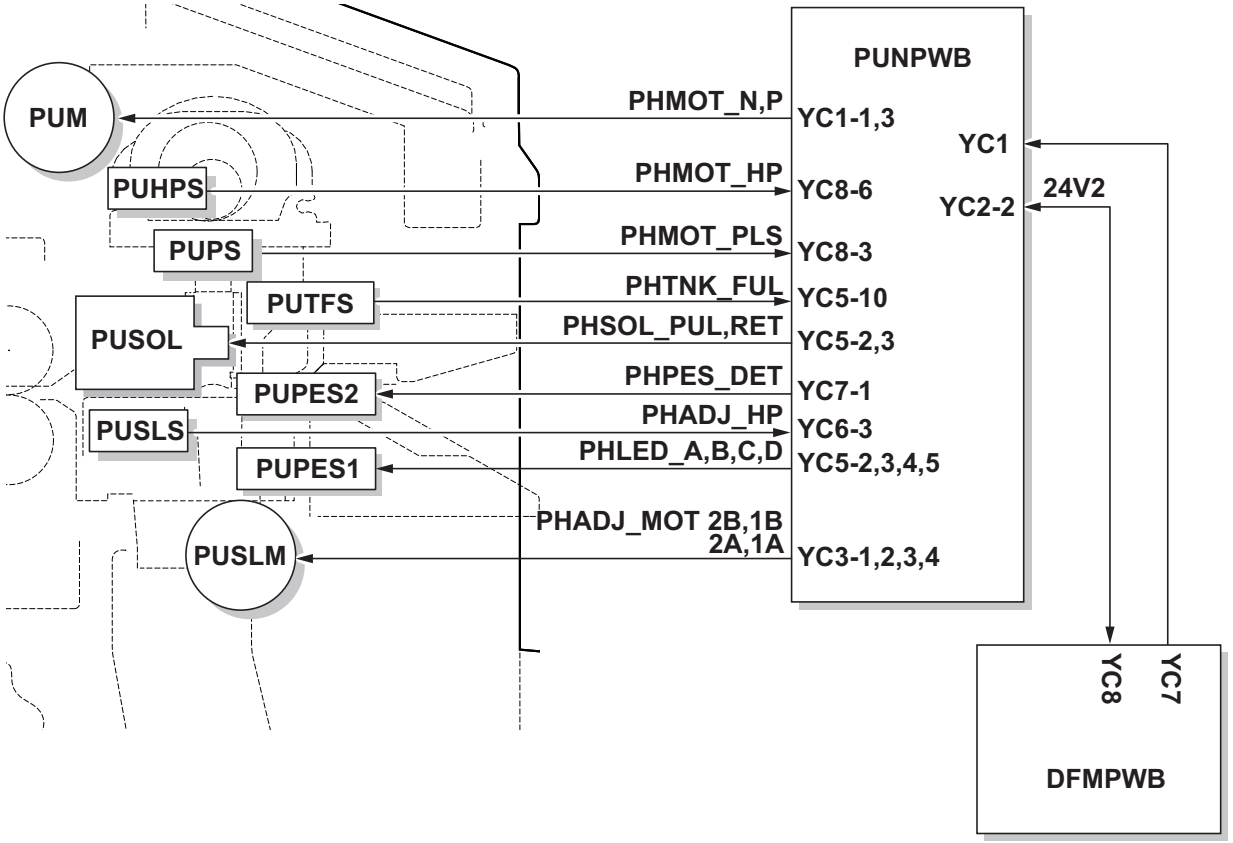

Figure 2-1-9 Punch unit block diagram

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2-2-1 Electrical parts layout

(1) PWBs

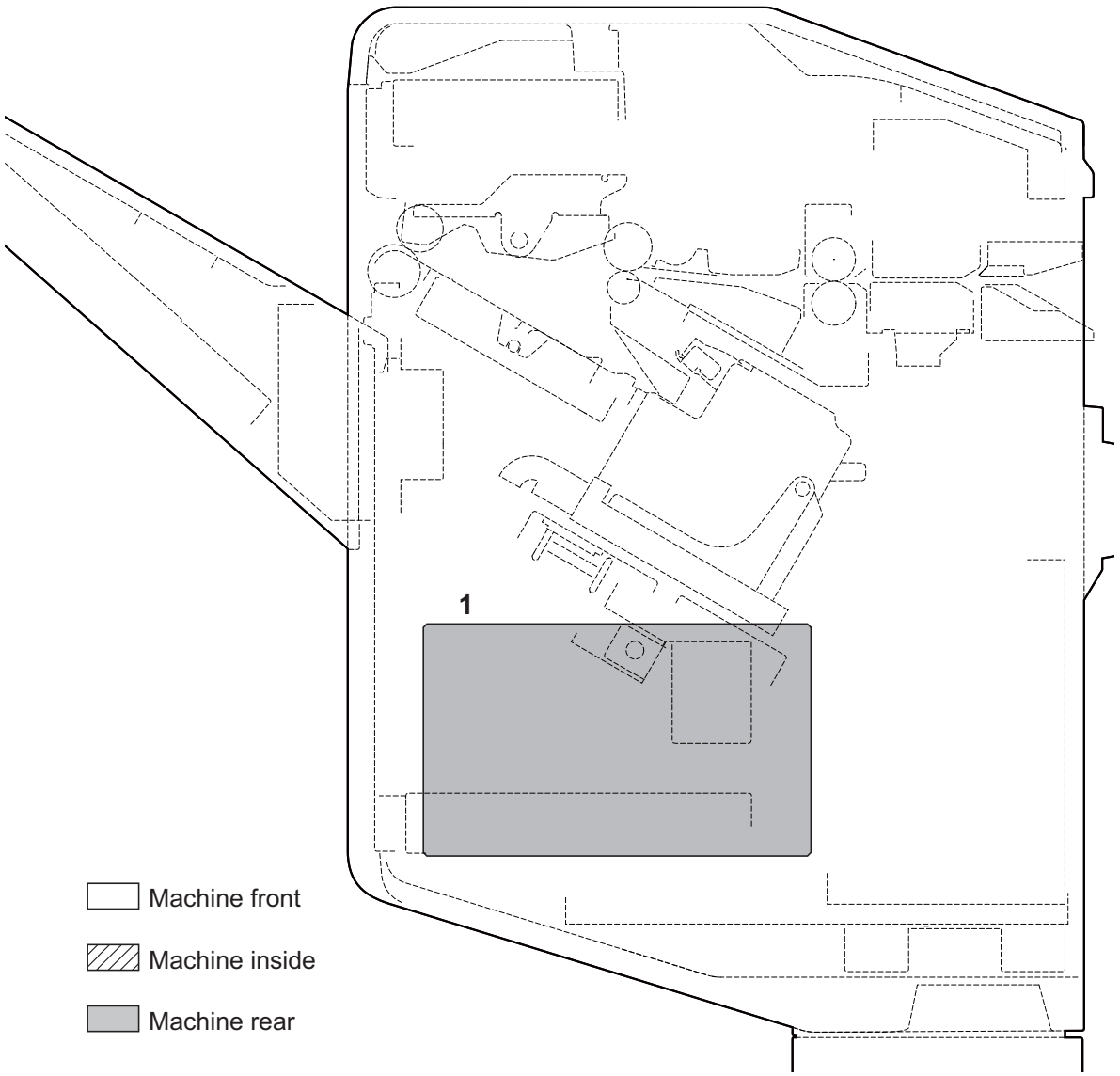

Figure 2-2-1 PWBs

1. DF main PWB (DFMPWB)..... Controls electrical components.

(2) Switches and sensors

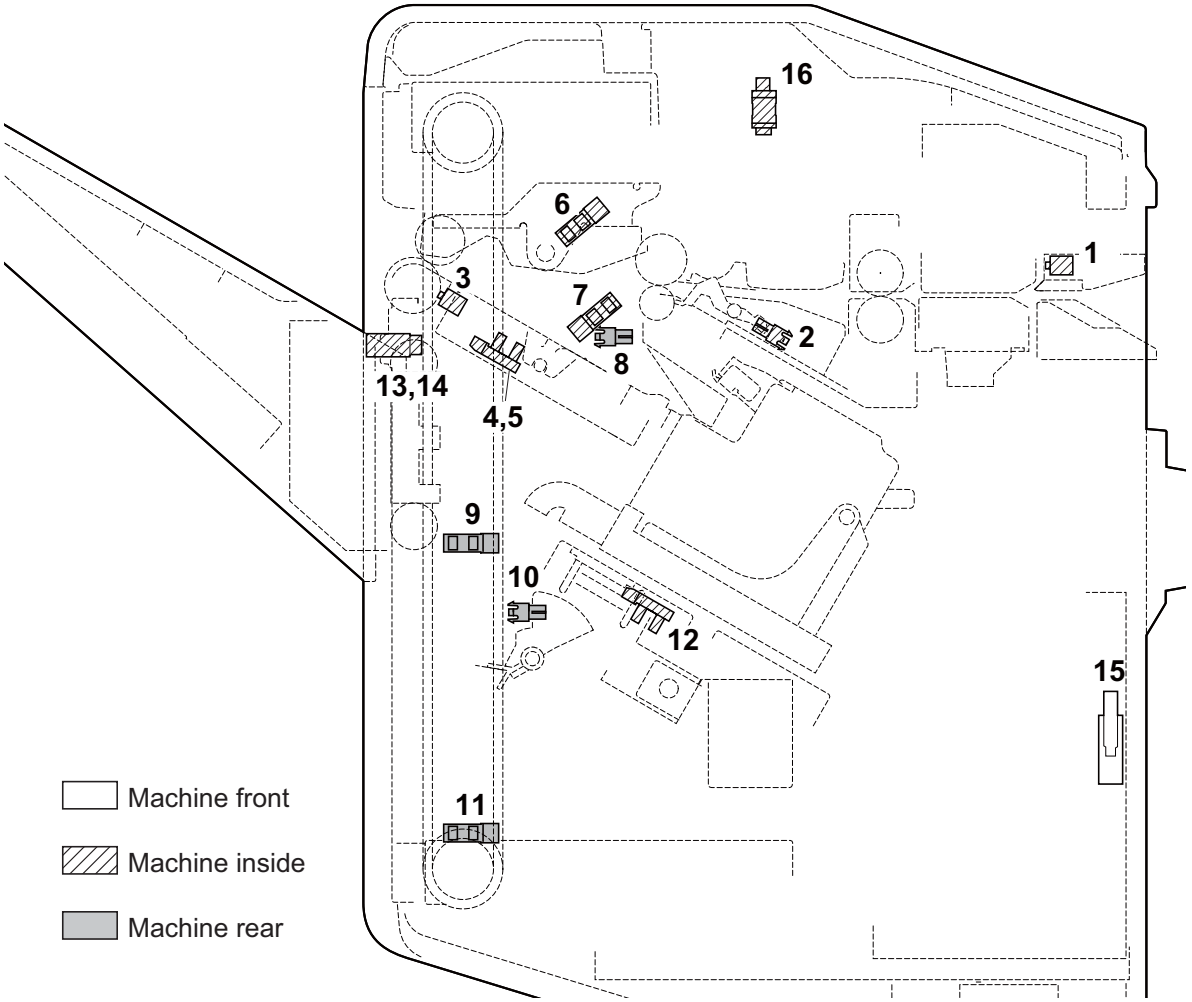

Figure 2-2-2 Switches and sensors

1. DF paper entrance sensor (DFPES)..... Detects a paper misfeed in the entrance section.
2. DF middle sensor (DFMS) ..... Detects a paper misfeed in the conveying section.
3. DF eject paper sensor (DFEPS) ..... Detects a paper in the eject section.
4. DF side registration sensor 1 (DFSRS1) ..... Detects the front registration plate in the home position.
5. DF side registration sensor 2 (DFSRS2) ..... Detects the rear registration plate in the home position.
6. DF adjustment sensor (DFADS) ..... Detects the adjustment unit in the home position.
7. DF banddle discharge unit sensor (DFBDS) ..... Detects the position of the bundle discharge unit.
8. DF paddle sensor (DFPDS) ..... Detects the position of the paddle.
9. DF tray sensor 1 (DFTS1)..... Detects the eject tray reaching the home position.
10. DF tray sensor 2 (DFTS2)..... Detects the eject tray reaching the middle position.
11. DF tray sensor 3 (DFTS3)..... Detects the eject tray reaching the lower limit.
12. DF slide sensor (DFSLS)..... Detects the slide position of the staple unit.
13. Paper surface sensor 1 (DFTUSS1)..... Detects upper surface of paper in the main tray.
14. Paper surface sensor 2 (DFTUSS2)..... Detects upper surface of paper in the main tray.
15. DF front cover sw (DFFCSW)..... Detects opening/closing of the DF front cover.
16. DF top cover sw (DFFCSW) ..... Detects opening/closing of the DF top cover.

(3) Motors

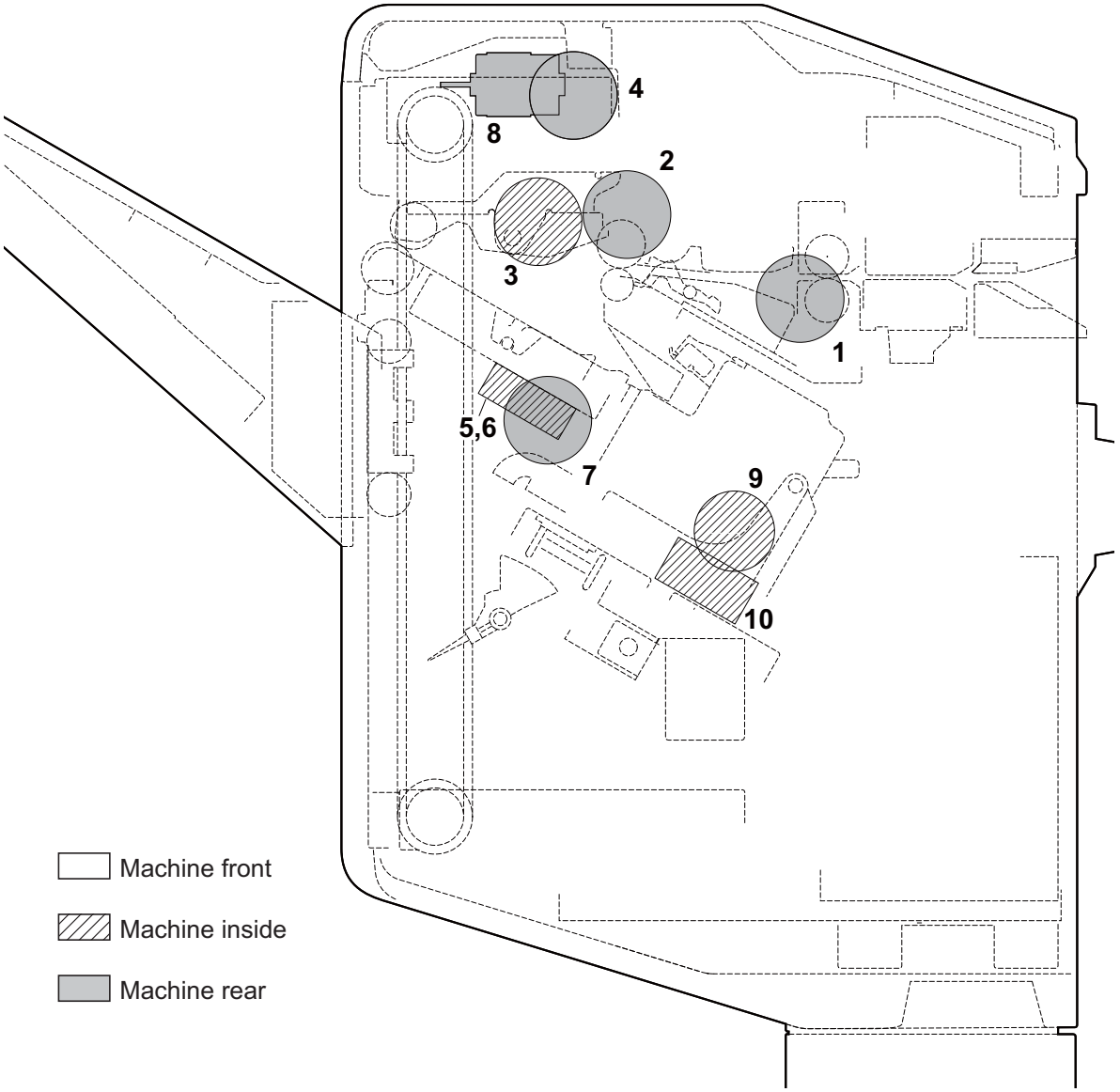

Figure 2-2-3 Motors

1. DF middle motor (DFPEM) ..... Drives the middle roller.
2. DF middle eject motor (DFMM)..... Drives the middle eject roller.
3. DF paddle motor (DFPDM) ..... Drives the paddle.
4. DF eject release motor(DFERM) ..... Drives the eject release roller.
5. DF side registration motor 1 (DFSRM1)..... Drives the front registration plate.
6. DF side registration motor 2 (DFSRM2)..... Drives the rear registration plate.
7. DF eject motor (DFEM)..... Drives the eject roller.
8. DF tray motor (DFTM)..... Raises and lowers the eject tray.
9. DF Staple motor (DFSTM) ..... Drives the staple.
10. DF Slide motor (DFSLM) ..... Drives the staple unit.

(4) Bridge section

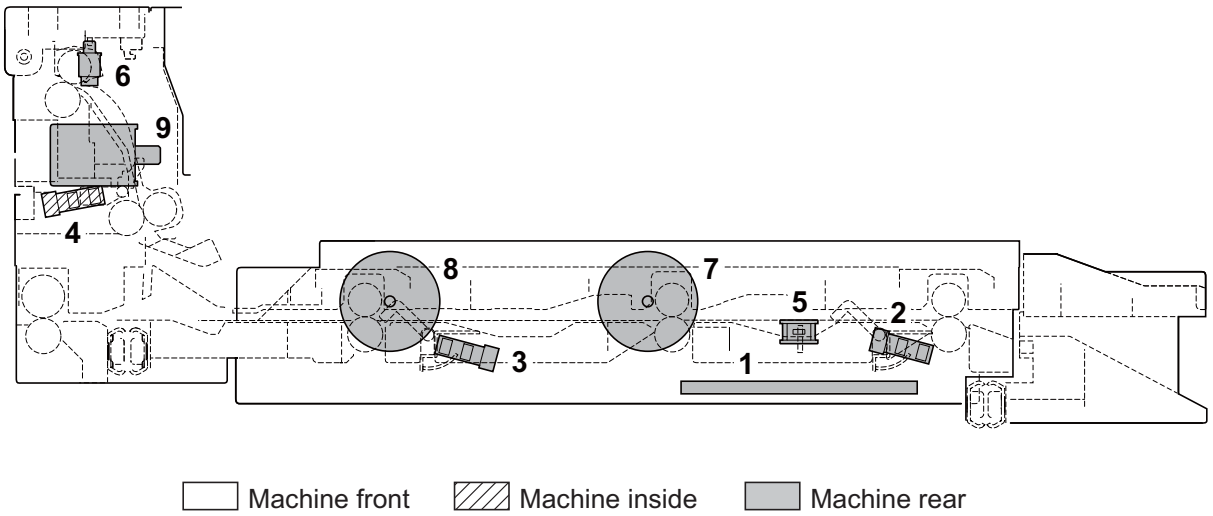

Figure 2-2-4 Bridge section

1. Bridge PWB (BRPWB)..... Controls the paper conveying section.
2. Bridge conveying sensor1 (BRCS1) ..... Detects a paper misfeed in the bridge section.
3. Bridge conveying sensor2 (BRCS2) ..... Detects a paper misfeed in the bridge section
4. Bridge eject sensor (BRES) ..... Detects a paper misfeed in the bridge eject section
5. Bridge conveying unit switch
   (BRCUSW)..... Detects opening/closing of the bridge cover.
6. Bridge eject cover switch
   (BRECSW)..... Detects opening/closing of the bridge eject cover.
7. Bridge conveying motor1 (BRCM1) ..... Drives the paper conveying section.
8. Bridge conveying motor2 (BRCM2) ..... Drives the paper conveying section.
9. Bridge solenoid (BRSOL)..... Operates the feedshift guide.

(5) Punch unit(Option)

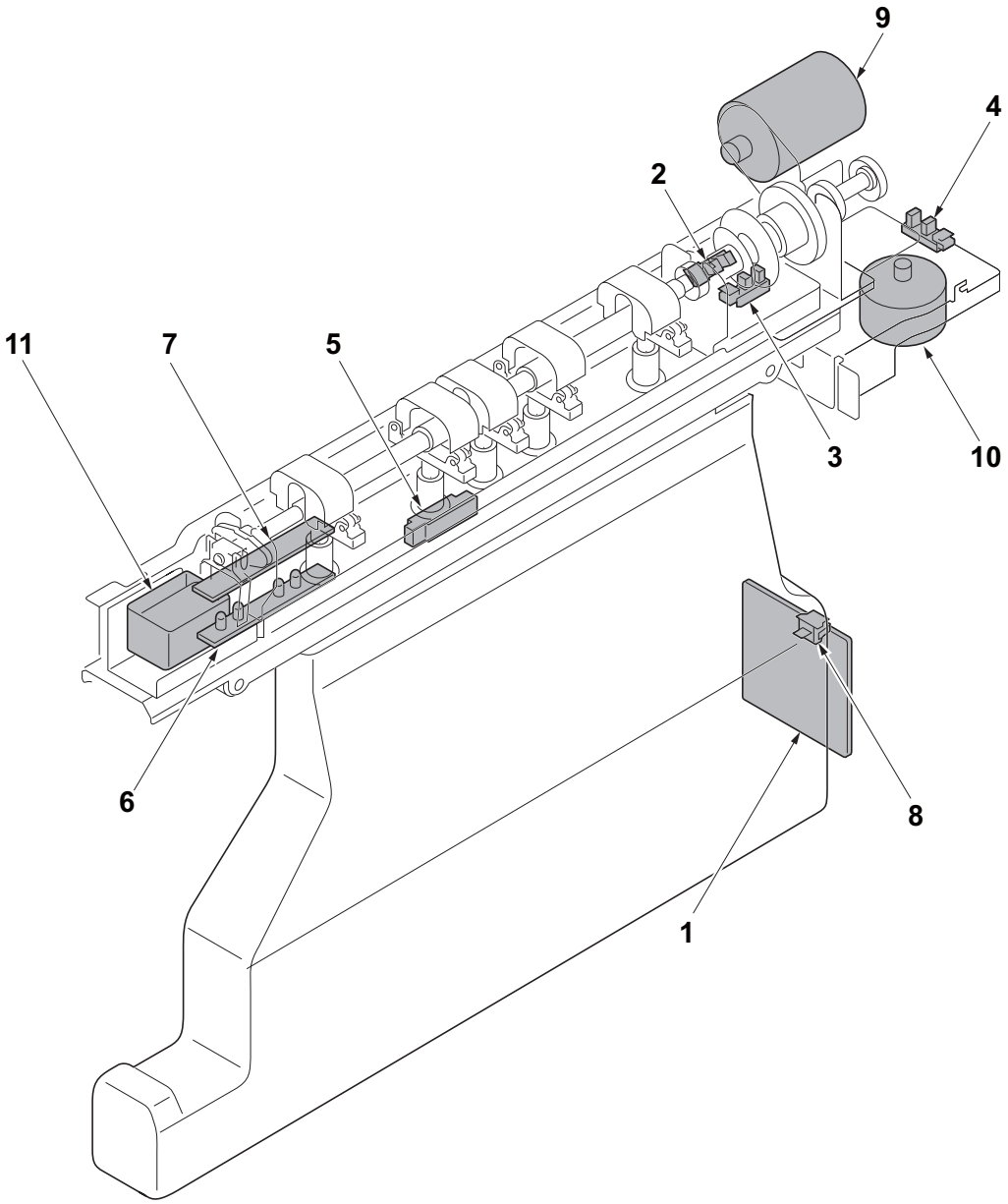

Figure 2-2-5 Bridge section

1. Punch PWB (PUNPWB) ..... Controls electric components of punch unit.
2. Punch home position sensor (PUHPS) ..... Detects home position of the punch cam.
3. Punch pulse sensor (PUPS) ..... Controls the rotation of punch cam.
4. Punch slide sensor (PUSLS) ..... Detects the slide position of the punch unit.
5. Punch tank full sensor (PUTFS) ..... Detects when the punch waste tank is full.
6. Punch paper edge sensor1 (PUPES1) ..... Detects the side edge position of the paper.
7. Punch paper edge sensor2 (PUPES2) ..... Detects the side edge position of the paper.
8. Punch tank set switch (PUTSSW) ..... Detects the punch waste tank is installed.
9. Punch motor (PUM) ..... Drives the punch.
10. Punch slide motor (PUSLM) ..... Drives the punch unit.
11. Punch solenoid (PUSOL)..... Switches the punch position.

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2-3-1 DF main PWB

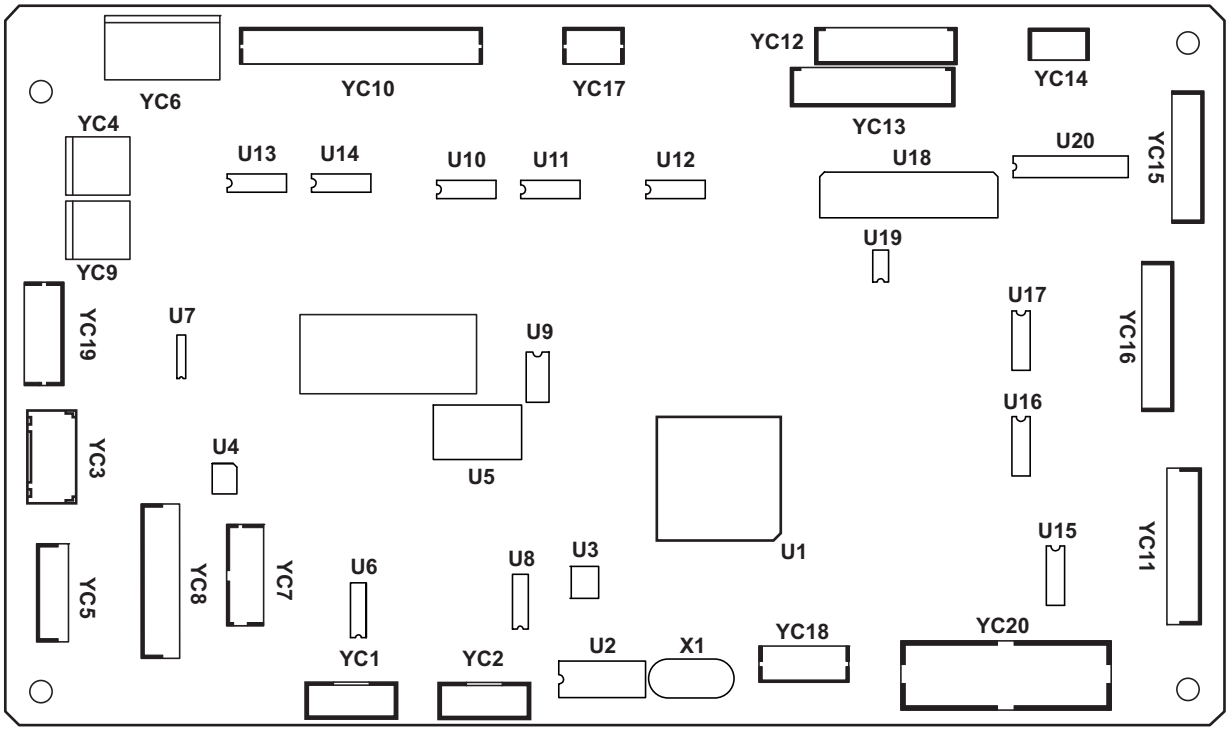


Figure 2-3-1 DF main PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC3	1	GND	-	-	Ground
Connected to machine	2	GND	-	-	Ground
	3	24V1	I	24 V DC	24 V DC power input from Machine
	4	24V1	I	24 V DC	24 V DC power input from Machine
YC6	1	24V1	O	24 V DC	24 V DC power outoput to DFFCSW
Connected to the DF front cover switch and DF top cover switch	2	FRONT COV SIG	I	0/24 V DC	DFFCSW: On/Off
	3	TOP COV SOURCE	O	0/24 V DC	24 V DC power output to DFTCSW
	4	TOP COV SIG	I	0/24 V DC	DFTCSW: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC7	1	GND	-	-	Ground
Connected to machine	2	GND	-	-	Ground
	3	ENG RDY	O	0/3.3 V DC	Ready signal to the machine
	4	ENG SEL	I	0/3.3 V DC	Select signal from the machine
	5	ENG CLK	I	0/3.3 V DC(pulse)	Serial communication clock signal
	6	ENG DI	I	0/3.3 V DC(pulse)	Serial communication data signal input
	7	ENG DO	O	0/3.3 V DC(pulse)	Serial communication data signal output
YC8	1	5V	O	5 V DC	5 V DC power output
Connected to the Punch unit PWB	2	3.3V	O	3.3 V DC	3.3 V DC power output
	3	3.3V	O	3.3 V DC	3.3 V DC power output
	4	GND	-	-	Ground
	5	NC	-	-	Not used
	6	EDGE DET REM	I	0/3.3 V DC	PUPES: On/Off
	7	PUN MOT REM	O	0/3.3 V DC	PUM: On/Off
	8	PU RDY	I	0/3.3 V DC	Ready signal
	9	PU SEL	O	0/3.3 V DC	Select signal
	10	PU CLK	O	0/3.3 V DC(pulse)	Serial communication clock signal
	11	PU DI	I	0/3.3 V DC(pulse)	Serial communication data signal input
	12	PU DO	O	0/3.3 V DC(pulse)	Serial communication data signal output
YC9	1	GND	-	-	Ground
Connected to the Punch unit PWB	2	24V2	O	24 V DC	24 V DC power output
YC10	1	EJECT MOT 2B	O	0/24 V DC(pulse)	DFEM drive control signal
Connected to the DF eject motor,DF middle eject motor ,DF middle motor, DF eject release motor,DF slide motor.	2	EJECT MOT 1B	O	0/24 V DC(pulse)	DFEM drive control signal
	3	EJECT MOT 2A	O	0/24 V DC(pulse)	DFEM drive control signal
	4	EJECT MOT 1A	O	0/24 V DC(pulse)	DFEM drive control signal
	5	MIDDLE MOT 2B	O	0/24 V DC(pulse)	DFMM drive control signal
	6	MIDDLE MOT 1B	O	0/24 V DC(pulse)	DFMM drive control signal
	7	MIDDLE MOT 2A	O	0/24 V DC(pulse)	DFMM drive control signal
	8	MIDDLE MOT 1A	O	0/24 V DC(pulse)	DFMM drive control signal
	9	ENTRY MOT 2B	O	0/24 V DC(pulse)	DFPEM drive control signal
	10	ENTRY MOT 1B	O	0/24 V DC(pulse)	DFPEM drive control signal
	11	ENTRY MOT 2A	O	0/24 V DC(pulse)	DFPEM drive control signal

Connector	Pin	Signal	I/O	Voltage	Description
	12	ENTRY MOT 1A	O	0/24 V DC(pulse)	DFPEM drive control signal
	13	EJE RELS MOT 2B	O	0/24 V DC(pulse)	DFERM drive control signal
	14	EJE RELS MOT 1B	O	0/24 V DC(pulse)	DFERM drive control signal
	15	EJE RELS MOT 2A	O	0/24 V DC(pulse)	DFERM drive control signal
	16	EJE RELS MOT 1A	O	0/24 V DC(pulse)	DFERM drive control signal
	17	ST MOV MOT 2B	O	0/24 V DC(pulse)	DFSLM drive control signal
	18	ST MOV MOT 1B	O	0/24 V DC(pulse)	DFSLM drive control signal
	19	ST MOV MOT 2A	O	0/24 V DC(pulse)	DFSLM drive control signal
	20	ST MOV MOT 1A	O	0/24 V DC(pulse)	DFSLM drive control signal
YC11	1	PADDLE MOT 2B	O	0/24 V DC(pulse)	DFPDM drive control signal
Connected to the DF paddle motor,DF side registration motor 2,1	2	PADDLE MOT 1B	O	0/24 V DC(pulse)	DFPDM drive control signal
	3	PADDLE MOT 2A	O	0/24 V DC(pulse)	DFPDM drive control signal
	4	PADDLE MOT 1A	O	0/24 V DC(pulse)	DFPDM drive control signal
	5	SIDE REG R MOT 2B	O	0/24 V DC(pulse)	DFSRM2 drive control signal
	6	SIDE REG R MOT 1B	O	0/24 V DC(pulse)	DFSRM2 drive control signal
	7	SIDE REG R MOT 2A	O	0/24 V DC(pulse)	DFSRM2 drive control signal
	8	SIDE REG R MOT 1A	O	0/24 V DC(pulse)	DFSRM2 drive control signal
	9	SIDE REG F MOT 2B	O	0/24 V DC(pulse)	DFSRM1 drive control signal
	10	SIDE REG F MOT 1B	O	0/24 V DC(pulse)	DFSRM1 drive control signal
	11	SIDE REG F MOT 2A	O	0/24 V DC(pulse)	DFSRM1 drive control signal
	12	SIDE REG F MOT 1A	O	0/24 V DC(pulse)	DFSRM1 drive control signal

Connector	Pin	Signal	I/O	Voltage	Description
YC12	1	STP_MOT OUT2	O	0/24 V DC(pulse)	DFSTM drive control signal
Connected to the staple unit	2	STP_MOT OUT2	O	0/24 V DC(pulse)	DFSTM drive control signal
	3	STP_MOT OUT2	O	0/24 V DC(pulse)	DFSTM drive control signal
	4	STP_MOT OUT2	O	0/24 V DC(pulse)	DFSTM drive control signal
	5	STP_MOT OUT1	O	0/24 V DC(pulse)	DFSTM drive control signal
	6	STP_MOT OUT1	O	0/24 V DC(pulse)	DFSTM drive control signal
	7	STP_MOT OUT1	O	0/24 V DC(pulse)	DFSTM drive control signal
	8	STP_MOT OUT1	O	0/24 V DC(pulse)	DFSTM drive control signal
	9	GND	-	-	Ground
	10	LS	I	0/5V DC	Staple unit LS signal
	11	READY	I	0/5V DC	Staple unit READY signal
	12	5V	O	5V DC	5V DC power output
	13	HP	I	0/5V DC	Staple unit HP signal
YC14	1	TRY MOT OUT1A	O	0/24 V DC(pulse)	DFTM drive control signal
Connected to the DF tray motor	2	TRY MOT OUT1B	O	0/24 V DC(pulse)	DFTM drive control signal
YC18	1	3.3V	O	3.3V DC	3.3 V DC power input to DFTUSS1
Connected to the DF paper surface sensor 1,2	2	TRY U SENS K	O	0/3.3V DC	DFTUSS1: On/Off
	3	TRY U SENS K	I	0/3.3V DC	DFTUSS1: On/Off
	4	GND	-	-	Ground
	5	TRY U SENS SIG	I	0/3.3V DC	DFTUSS2: On/Off
	6	3.3V	O	3.3V DC	3.3 V DC power output to DFTUSS2
YC19	1	GND	-	-	Ground
Connected to the DF paper entrance sensor and DF middle sensor	2	PAP ENT SIG	I	0/3.3V DC	DFPES: On/Off
	3	3.3V	O	3.3V DC	3.3 V DC power output to DFPES
	4	MID EJE SENS A	O	3.3V DC	3.3 V DC power output to DFMS
	5	GND	-	-	Ground
	6	MID EJE SENS SIG	I	0/3.3V DC	DFMS: On/Off
	7	NC	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
YC20	1	BUNDLE SENS A	O	3.3V DC	3.3 V DC power output to DFBDS
Connected to the DF bandle discharge unit sensor, DF adjustment sensor, DF tray sensor 1,2,3, DF paddle sensor, DF paper surface sensor 1,2 ,DF eject paper sensor ,DF slide sensor	2	GND	-	-	Ground
	3	BUNDLE SENS SIG	I	0/3.3V DC	DFBDS: On/Off
	4	ADJUST SENS A	O	3.3V DC	3.3 V DC power output to DFADS
	5	GND	-	-	Ground
	6	ADJUST SENS SIG	I	0/3.3V DC	DFADS: On/Off
	7	TRY HP SENS A	O	3.3V DC	3.3 V DC power output to DFTS1
	8	GND	-	-	Ground
	9	TRY HP SENS SIG	I	0/3.3V DC	DFTS1: On/Off
	10	TRY HALF SENS A	O	3.3V DC	3.3 V DC power output to DFTS2
	11	GND	-	-	Ground
	12	TRY HALF SENS SIG	I	0/3.3V DC	DFTS2: On/Off
	13	TRY FULL SENS A	O	3.3V DC	3.3 V DC power output to DFTS3
	14	GND	-	-	Ground
	15	TRY FULL SENS SIG	I	0/3.3V DC	DFTS3: On/Off
	16	PADDLE SENS A	O	3.3V DC	3.3 V DC power output to DFPDS
	17	GND	-	-	Ground
	18	PADDLE SENS SIG	I	0/3.3V DC	DFPDS: On/Off
	19	SID REG R SENS A	O	3.3V DC	3.3 V DC power output to DFSRS2
	20	GND	-	-	Ground
	21	SID REG R SENS SIG	I	0/3.3V DC	DFSRS2: On/Off
	22	SID REG F SENS A	O	0/3.3V DC	3.3 V DC power output to DFSRS1
	23	GND	-	-	Ground
	24	SID REG F SENS SIG	I	3.3V DC	DFSRS1: On/Off
	25	GND	-	-	Ground
	26	EJE PAP SENS SIG	I	0/3.3V DC	DFEPS: On/Off
	27	3.3V	O	3.3V DC	3.3 V DC power output to DFEPS
	28	STAPLE SENS A	O	3.3V DC	3.3 V DC power output to DFSLS
	29	GND	-	-	Ground
	30	STAPLE SENS SIG	I	0/3.3V DC	DFSLS: On/Off

2-3-2 Bridge PWB

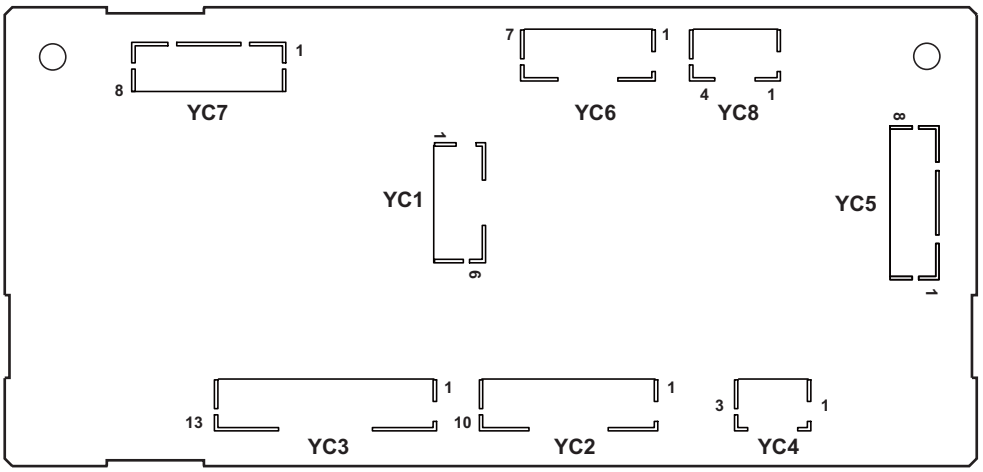


Figure 2-3-2 Bridge PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	+24V	I	24V DC	24 V DC power input from machine
Connected to the machine	2	+24V	I	24V DC	24 V DC power input from machine
	3	GND	-	-	Ground
	4	GND	-	-	Ground
	5	+5V	I	5V DC	5 V DC power input from machine
	6	GND	-	-	Ground
YC3	1	BRIDGE_SENS 1	O	0/5V DC	BRCS1: On/Off
Connected to the machine	2	BRIDGE OPEN	O	0/5V DC	BRCUSW: On/Off
	3	BRIDGE_SENS 2	O	0/5V DC	BRCS2: On/Off
	4	BRIDGE1 DIR	I	0/5V DC	BRCM1 control signal
	5	BRIDGE1 PD	I	0/5V DC	BRCM1 control signal
	6	BRIDGE1 CLK	I	0/5V DC(pulse)	BRCM1 clock signal
	7	BRIDGE1 MODE	I	0/5V DC	BRCM1 mode signal
	8	BRIDGE1 REM	I	0/5V DC	BRCM1: On/Off
	9	BRIDGE2 DIR	I	0/5V DC	BRCM2 control signal
	10	BRIDGE2 PD	I	0/5V DC	BRCM2 control signal
	11	BRIDGE2 CLK	I	0/5V DC(pulse)	BRCM2 clock signal
	12	BRIDGE2 MODE	I	0/5V DC	BRCM2 mode signal
	13	BRIDGE2 REM	I	0/5V DC	BRCM2: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC4	1	GND	-	-	Ground
Connected to the bridge conveying sensor 2	2	BRIDGE_SENS 2	I	0/5V DC	BRCM2: On/Off
	3	+5V	O	5V DC	5 V DC power output to BRCS2
YC6	1	GND	-	-	Ground
Connected to the bridge conveying sensor 2 and bridge cover switch	2	BRIDGE_SENS 1	I	0/5V DC	BRCS1: On/Off
	3	+5V	O	5V DC	5 V DC power output to BRCS1
	4	GND	-	-	Ground
	5	BRIDGE_OPEN	I	0/5V DC	BRCUSW: On/Off
	6	+5V	O	5V DC	5 V DC power output to BRCUSW
	7	NC	-	-	Not used
YC7	1	BRIDGE1_B/	O	0/24V DC(pulse)	BRCM1 control signal
Connected to the bridge conveying motor1,2	2	BRIDGE1_A/	O	0/24V DC(pulse)	BRCM1 control signal
	3	BRIDGE1_B	O	0/24V DC(pulse)	BRCM1 control signal
	4	BRIDGE1_A	O	0/24V DC(pulse)	BRCM1 control signal
	5	BRIDGE2_B/	O	0/24V DC(pulse)	BRCM2 control signal
	6	BRIDGE2_A/	O	0/24V DC(pulse)	BRCM2 control signal
	7	BRIDGE2_B	O	0/24V DC(pulse)	BRCM2 control signal
	8	BRIDGE2_A	O	0/24V DC(pulse)	BRCM2 control signal

2-3-3 Punch unit PWB

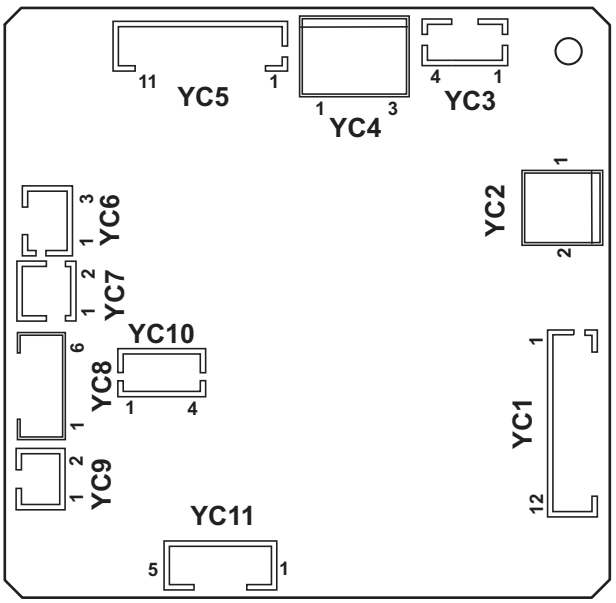


Figure 2-3-3 Punch unit PWB silk-screen diagram

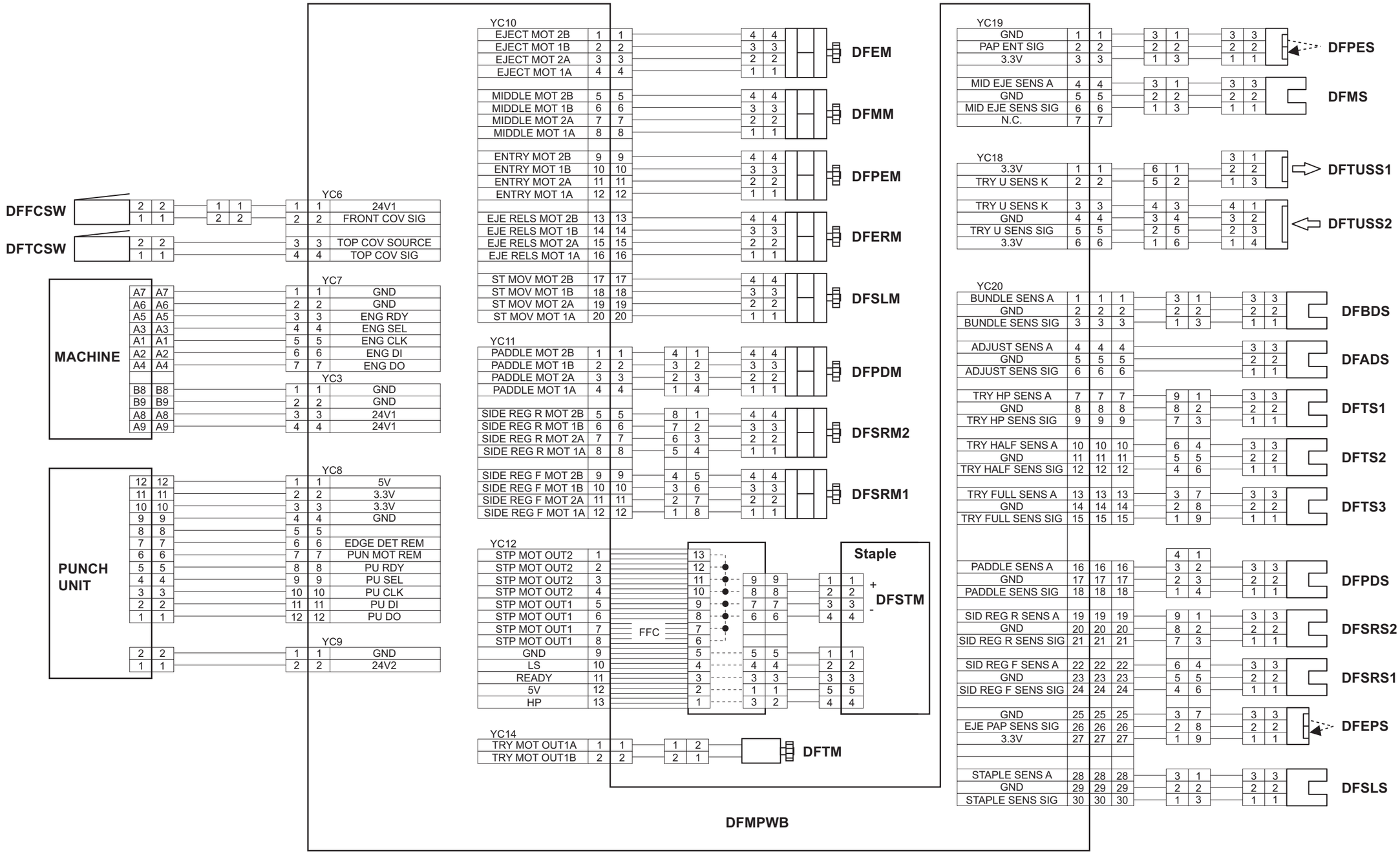
Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	PH_SDI	I	0/3.3V DC(pulse)	Serial communication data signal input
Connected to the machine	2	PH_SDO	O	0/3.3V DC(pulse)	Serial communication data signal output
	3	PH_CLK	I	0/3.3V DC(pulse)	Serial communication clock signal
	4	PH_SEL	I	0/3.3V DC	Select signal from the machine
	5	PH_RDY	O	0/3.3V DC	Ready signal to the machine
	6	PHMOT_REQ	I	0/3.3V DC	PUM: On/Off
	7	PHPES_REQ	O	0/3.3V DC	PUPES: On/Off
	8	GND	-	-	Ground
	9	GND	-	-	Ground
	10	3.3V	I	3.3V DC	3.3 V DC power input from machine
	11	3.3V	I	3.3V DC	3.3 V DC power input from machine
	12	5.0V	I	5V DC	3.3 V DC power input from machine
YC2	1	GND	-	-	Ground
Connected to the machine	2	24V2	I	24V DC	24 V DC power input from machine

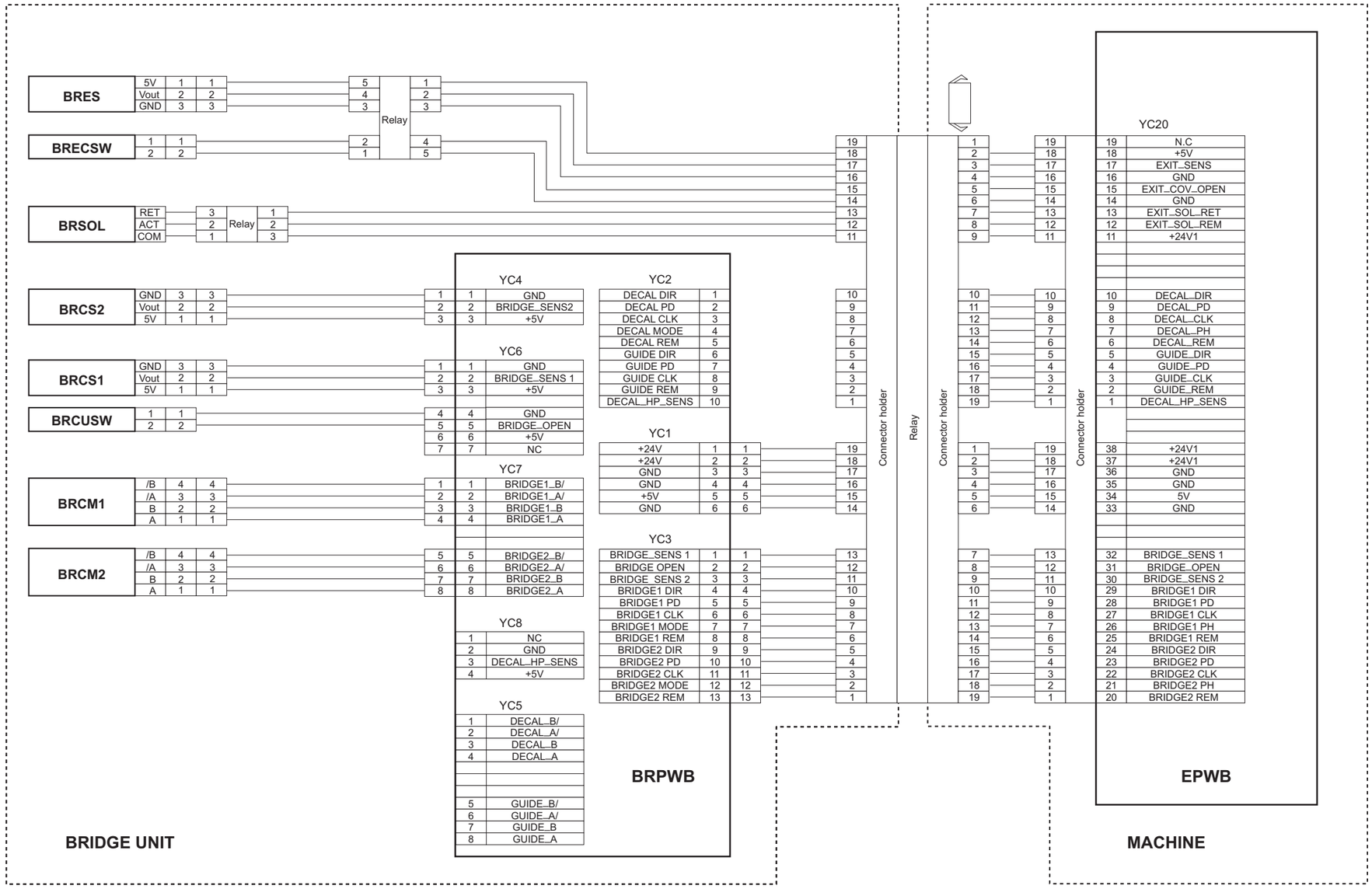
Connector	Pin	Signal	I/O	Voltage	Description
YC3	1	PHADJ_MOT 2B	O	0/24V DC(pulse)	PUSLM drive control signal
Connected to the punch slide motor	2	PHADJ_MOT 1B	O	0/24V DC(pulse)	PUSLM drive control signal
	3	PHADJ_MOT 2A	O	0/24V DC(pulse)	PUSLM drive control signal
	4	PHADJ_MOT 1A	O	0/24V DC(pulse)	PUSLM drive control signal
YC4	1	PHMOT_N	O	0/24V DC(pulse)	PUM drive control signal
Connected to the punch motor	2	NC	-	-	Not used
	3	PHMOT_P	O	0/24V DC(pulse)	PUM drive control signal
YC5	1	24V2	O	24V DC	24 V DC power output to PUSOL
Connected to the punch solenoid, punch paper edge sensor1 and punch tank full sensor	2	PHSOL_PUL	O	0/24V DC	PUSOL: On/Off (activate)
	3	PHSOL_RET	O	0/24V DC	PUSOL: On/Off (return)
	4	PHLED_A	O	0/3.3V DC	PUPES1_A: On/Off
	5	PHLED_B	O	0/3.3V DC	PUPES1_B: On/Off
	6	PHLED_C	O	0/3.3V DC	PUPES1_C: On/Off
	7	PHLED_D	O	0/3.3V DC	PUPES1_D: On/Off
	8	PHLED_3.3V	O	3.3V DC	3.3 V DC power output to PUPES1
	9	5.0V	O	5V DC	5 V DC power output to PUTFS
	10	PHTNK_FUL	I	0/5V DC	PUTFS: On/Off
	11	GND	-	-	Ground
YC6	1	SEN	O	3.3V DC	3.3 V DC power output to PUSLS
Connected to the punch slide sensor	2	GND	-	-	Ground
	3	PHADJ_HP	I	0/3.3V DC	PUSLS: On/Off
YC7	1	PHPES_DET	I	0/3.3V DC	PUPES2: On/Off
Connected to the punch paper edge sensor 2	2	GND	-	-	Ground
YC8	1	SENS3.3V	O	3.3V DC	3.3 V DC power output to PUPS
Connected to the punch plus sensor and punch home posi-tion sensor	2	GND	-	-	Ground
	3	PHMOT_PLS	I	0/3.3V DC	PUPS: On/Off
	4	SENS3.3V	O	3.3V DC	3.3 V DC power output to PUHPS
	5	GND	-	-	Ground
	6	PHMOT_HP	I	0/3.3V DC	PUHPS: On/Off

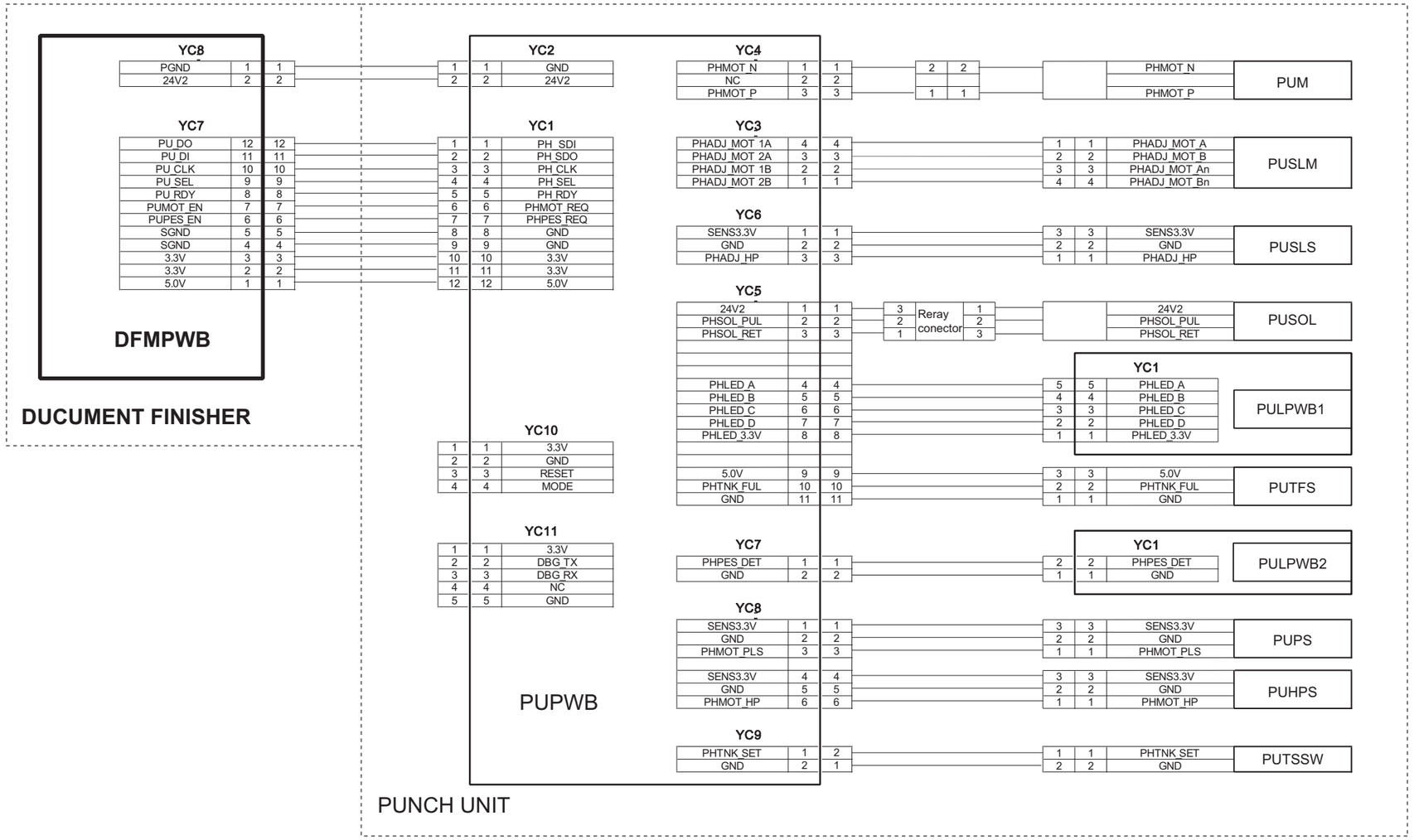
Connector	Pin	Signal	I/O	Voltage	Description
YC9	1	PHTNK_SET	I	0/3.3V DC	PUTSSW: On/Off
Connected to the punch tank set switch	2	GND	-	-	Ground

2-4-1 Appendixes

(1) Wiring diagram




BRES
5V 1 1
Vout 2 2
GND 3 3
5 1
4 2
3 3
Relay
BRECSW
1 1
2 2
2 4
1 5
BRSOL
RET
ACT
COM
3 1
2 2
1 3
Relay
BRCS2
GND 3 3
Vout 2 2
5V 1 1
BRCS1
GND 3 3
Vout 2 2
5V 1 1
BRCUSW
1 1
2 2
BRCM1
/B 4 4
/A 3 3
B 2 2
A 1 1
BRCM2
/B 4 4
/A 3 3
B 2 2
A 1 1
YC4
1 1 GND
2 2 BRIDGE_SENS2
3 3 +5V
YC6
1 1 GND
2 2 BRIDGE_SENS 1
3 3 +5V
4 4 GND
5 5 BRIDGE_OPEN
6 6 +5V
7 7 NC
YC7
1 1 BRIDGE1_B/
2 2 BRIDGE1_A/
3 3 BRIDGE1_B
4 4 BRIDGE1_A
5 5 BRIDGE2_B/
6 6 BRIDGE2_A/
7 7 BRIDGE2_B
8 8 BRIDGE2_A
YC8
1 NC
2 GND
3 DECAL_HP_SENS
4 +5V
YC5
1 DECAL_B/
2 DECAL_A/
3 DECAL_B
4 DECAL_A
5 GUIDE_B/
6 GUIDE_A/
7 GUIDE_B
8 GUIDE_A
YC2
DECAL DIR 1
DECAL PD 2
DECAL CLK 3
DECAL MODE 4
DECAL REM 5
GUIDE DIR 6
GUIDE PD 7
GUIDE CLK 8
GUIDE REM 9
DECAL_HP_SENS 10
YC1
+24V 1 1
+24V 2 2
GND 3 3
GND 4 4
+5V 5 5
GND 6 6
YC3
BRIDGE_SENS 1 1 1
BRIDGE OPEN 2 2
BRIDGE_ SENS 2 3 3
BRIDGE1 DIR 4 4
BRIDGE1 PD 5 5
BRIDGE1 CLK 6 6
BRIDGE1 MODE 7 7
BRIDGE1 REM 8 8
BRIDGE2 DIR 9 9
BRIDGE2 PD 10 10
BRIDGE2 CLK 11 11
BRIDGE2 MODE 12 12
BRIDGE2 REM 13 13
BRPWB
19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1
19 18 17 16 15 14 13 12 11
Connector holder
Relay
Connector holder
1 2 3 4 5 6 7 8 9
19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1
19 18 17 16 15 14 13 12 11
Connector holder
YC20
19 N.C
18 +5V
17 EXIT_SENS
16 GND
15 EXIT_COV_OPEN
14 GND
13 EXIT_SOL_RET
12 EXIT_SOL_REM
11 +24V1
10 DECAL_DIR
9 DECAL_PD
8 DECAL_CLK
7 DECAL_PH
6 DECAL_REM
5 GUIDE_DIR
4 GUIDE_PD
3 GUIDE_CLK
2 GUIDE_REM
1 DECAL_HP_SENS
38 +24V1
37 +24V1
36 GND
35 GND
34 5V
33 GND
32 BRIDGE_SENS 1
31 BRIDGE_OPEN
30 BRIDGE_SENS 2
29 BRIDGE1 DIR
28 BRIDGE1 PD
27 BRIDGE1 CLK
26 BRIDGE1 PH
25 BRIDGE1 REM
24 BRIDGE2 DIR
23 BRIDGE2 PD
22 BRIDGE2 CLK
21 BRIDGE2 PH
20 BRIDGE2 REM
EPWB
BRIDGE UNIT
MACHINE


DFMPWB
YC8
PGND 1 1
24V2 2 2
YC7
PU_DO 12 12
PU_DI 11 11
PU_CLK 10 10
PU_SEL 9 9
PU_RDY 8 8
PUMOT_EN 7 7
PUPES_EN 6 6
SGND 5 5
SGND 4 4
3.3V 3 3
3.3V 2 2
5.0V 1 1
DUCUMENT FINISHER
PUPWB
YC2
1 1 GND
2 2 24V2
YC1
1 1 PH_SDI
2 2 PH_SDO
3 3 PH_CLK
4 4 PH_SEL
5 5 PH_RDY
6 6 PHMOT_REQ
7 7 PHPES_REQ
8 8 GND
9 9 GND
10 10 3.3V
11 11 3.3V
12 12 5.0V
YC10
1 1 3.3V
2 2 GND
3 3 RESET
4 4 MODE
YC11
1 1 3.3V
2 2 DBG_TX
3 3 DBG_RX
4 4 NC
5 5 GND
YC4
PHMOT_N 1 1
NC 2 2
PHMOT_P 3 3
2 2
1 1
PHMOT_N
PHMOT_P
PUM
YC3
PHADJ_MOT_1A 4 4
PHADJ_MOT_2A 3 3
PHADJ_MOT_1B 2 2
PHADJ_MOT_2B 1 1
1 1 PHADJ_MOT_A
2 2 PHADJ_MOT_B
3 3 PHADJ_MOT_An
4 4 PHADJ_MOT_Bn
PUSLM
YC6
SENS3.3V 1 1
GND 2 2
PHADJ_HP 3 3
3 3 SENS3.3V
2 2 GND
1 1 PHADJ_HP
PUSLS
YC5
24V2 1 1
PHSOL_PUL 2 2
PHSOL_RET 3 3
3 1
2 2
1 3
Reray conector
24V2
PHSOL_PUL
PHSOL_RET
PUSOL
PHLED_A 4 4
PHLED_B 5 5
PHLED_C 6 6
PHLED_D 7 7
PHLED_3.3V 8 8
YC1
5 5 PHLED_A
4 4 PHLED_B
3 3 PHLED_C
2 2 PHLED_D
1 1 PHLED_3.3V
PULPWB1
5.0V 9 9
PHTNK_FUL 10 10
GND 11 11
3 3 5.0V
2 2 PHTNK_FUL
1 1 GND
PUTFS
YC7
PHPES_DET 1 1
GND 2 2
YC1
2 2 PHPES_DET
1 1 GND
PULPWB2
YC8
SENS3.3V 1 1
GND 2 2
PHMOT_PLS 3 3
SENS3.3V 4 4
GND 5 5
PHMOT_HP 6 6
3 3 SENS3.3V
2 2 GND
1 1 PHMOT_PLS
PUPS
3 3 SENS3.3V
2 2 GND
1 1 PHMOT_HP
PUHPS
YC9
PHTNK_SET 1 2
GND 2 1
1 1 PHTNK_SET
2 2 GND
PUTSSW
PUNCH UNIT

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